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City Treasurer: E. M. Tapson, Esq.

PUBLIC HEALTH STAFF

Medical Officer of Health (City, Port and Schools):

R. H. Parry, M.D., F.R.C.P., D.P.H.

Deputy Medical Officer of Health:

I. G. Davies, M.D., M.R.C.P. (Lond.), D.P.H.

Principal Medical Assistants:

Maternity and Child Welfare:

Marguerite G. Hughes, M.B., Ch.B.

School Medical Service:

* A. A. Dalby, M.C., M.R.C.S., L.R.C.P.

Chest Specialist:

C. J. C. Faill, F.R.C.P. Ed. .

Venerea! Disease:

S. H. Kingston, M.B., Ch.B., D.P.H.

Port Health:

D. T. Richards, M.R.C.S., L.R.C.P., D.P.H.

Bacteriology:

K. E. Cooper, B.Sc., Ph.D., L.R.C.P., M.R.C.S., A.I.C.

Clinical Pathology:

Dorothy Woodman, M.D., M.Sc., M.R.C.S., L.R.C.P.

Assistant Medical Officer of Health:

R. J. Irving-Bell, M.R.C.S., L.R.C.P., D.P.H.

Air Raid Precautions:

A. M. Fraser, L.R.C.P.E., L.R.C.S.E., D.P.H.

Ham Green Hospital and Sanatorium:

B. A. I. Peters, B.A., M.D., B.C., D.P.H.

Southmead General Hospital and Snowdon Road Hospital: P. Phillips, M.Sc., M.D., Ch.B.

Frenchay Park Sanatorium:

E. Evelyn Mawson, M.D., Ch.B.

Babies' Home:

Greta Hartley, M.D., M.M.

Residential Nurseries:

A. Alison Craig, M.B., B.S., D.P.H., D.C.H.

Other Principal Assistants.

Administration:

J. G. Watson

Chief Sanitary Inspector:

F. J. Redstone, F.S.I.A., M.R.San.I.

Matron, External Nursing Services:

Miss W. A. Johnson.

Public Analyst:

F. E. Needs, F.I.C.

Veterinary Surgeon:

G. E. Henson, F.R.C.V.S.

* On active service

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REPORT OF THE MENTAL DEFICIENCY ACTS COMMITTEE



ANNUAL REPORT, 1943

My Lord Mayor, Ladies and Gentlemen,

I have the honour to submit my report on the state of the public health and sanitary circumstances of the city for the year 1943. This is the first published report since 1938. During the war years publication has been suspended but it is felt that an abridged report should now be published. This abridged document summarises the more important aspects of the work of the department, including the city, port and school medical services for 1943. For reasons of economy in paper and labour data collated in accordance with the normal procedure have been reserved for publication after the war. The present report follows the lines suggested by the Ministry of Health in Circular 10/44, dated February, 1944, and deals with subjects of current interest, particularly tuberculosis, venereal disease and diphtheria immunisation.

In addition I have included at the request of the Health Committee a series of lectures of great public health interest given in 1880 by Dr. David Davies, who was the first Medical Officer of Health for this city (1855 to 1886). They fore-shadow many public health measures since brought to fruition.

I. VITAL STATISTICS.

Tables covering the vital statistics of the city are included in the Appendix. These figures are based on information supplied by the Registrar-General, who has particularly directed attention to the fact that the estimates of the numbers and distribution of the non-civilian population are not available and that non-civilian deaths and non-civilian notifications are excluded. The estimated population from 1940 onwards is therefore the civilian population only, and the various rates calculated on this basis are in consequence slightly over-stated.

The following short paragraphs point the principal features of the published figures and it is interesting to note that the war years contain several high and low records.

Population.

With the above reservations the population of the city, as estimated by the Registrar-General at mid-1943 is 370,800, an increase of 8,600 on the figure supplied for mid-1942.

Marriages (Rate: 16.8 per 1,000 population).

The marriage rate had been increasing consistently every year since 1932, and this increase was considerably accelerated during the war up to 1942. In 1943, however, there was a marked drop in the number of marriages and the marriage rate was the lowest since 1934.

Births (Rate: 18.57 per 1,000 population).

The birth rate reached the lowest level for many years in 1935, but since that date up to the commencement of the war there had been a moderate but steady increase. The war years, apart from 1941, have brought a substantial increase in the birth rate. The fact that marriages have taken place at an earlier age under war conditions may account for this to some extent. As already stated, the marriage rate has now fallen off and the increased birth rate may therefore prove temporary only to be off-set later on by a compensating fall.

The total number of births which took place in Bristol during 1943 was 7,230. Of these, 1,039 were cases not resident in the city whilst 694 Bristol babies were born outside the city, giving a corrected figure of 6,885. Of the total births 5,386 occurred in Institutions in the city, and of these 2,577 were at Southmead Hospital. At the Cedar Hall Annexe which is outside the Bristol Registration

Area 295 babies were born.

Stillbirths (Rate: 29.46 per 1,000 total births).

The year 1943 brought a new low record in the number of stillbirths (209) and in the stillbirth rate since the year 1927, when stillbirths first became registerable, being now just below 30 per 1,000 total births compared with an average of 38 for the 16 years. There were 49 outside the city cases not included in the above figure.

Illegitimacy (Rate: 63 per 1,000 live births).

In 1943 the illegitimate rate of 63 per 1,000 live births showed a substantial increase over the previous three war years and is the highest recorded rate since the commencement of the first world war. It represents an increase of approximately 100% over the average for the five years immediately preceding the present war. The average for the present war up to date is about the same as that for the period 1914-1919. In England and Wales during 1939 and 1940, about two-thirds of all births resulting from extra-marital conceptions were legitimised by marriage before the birth took place. The proportions for recent years are not yet known but the absence abroad of the male partner may well have prevented many such marriages taking place, leading to a fall in the proportion which could be legitimised. If this has occurred in large and increasing numbers of cases it might account at any rate in part for the rise in illegitimate births.

Deaths (Rate: 12.40 per 1,000 population).

The death rate which showed a rise for the years 1940 and 1941 as a result of civilian war casualties shows a slight increase over the preceding year. Owing to the magnitude of local population movements and the uneven incidence of civilian war deaths, the preparation of the Areal Comparability Factor which makes allowance for dispersion over age groups and enables the local death rate to be compared with the death rate for the country as a whole or with the mortality in other local areas is not available and is being suspended under present conditions.

Natural Increase (Rate: 6.17 per 1,000 population).

The natural increase of population (i.e. by the excess of births over deaths) of 2,287 was equivalent to a rate of 6.17 per 1,000 population, the highest figure recorded since the year 1922. It will be noted, however, that in the years 1940 and 1941 there were slight natural decreases in population.

The number of male births has exceeded the female births in every year since the last war. The total number of males in excess of females born over the period since the last census 1931 (when the female population exceeded the male population by 27,000) is 2,133. During the same period, however, female deaths exceeded male deaths (non-civilian excluded) by 320 because of the greater number.

Infant Mortality (Rate: 45 per 1,000 live births).

There were 391 infant deaths in the city during 1943, but 82 non-residents must be deducted and four deaths of Bristol children outside the city included to correct the figure to the Registrar-General's total of 313.

This gives an infant mortality rate of 45 per 1,000 live births which exceeds the low record rate of 37 for the previous year. The war years have also included the highest rate (56 in 1940) recorded for 13 years. It is interesting again here to look back to the previous war period and to note that an infant mortality rate of not less than twice as high was quite common, whilst 50 years ago the rate was between three and four times as high as it is to-day.

The infant mortality rate amongst illegitimate infants was again in excess of the legitimate rate at 53 per 1,000 illegitimate live births. This compares with the low record of 46 per 1,000 in the previous year.

The illegitimate infant mortality rate for the past 10 years averages 91 per 1,000 illegitimate live births which is double the average legitimate rate of 45 per 1,000 legitimate live births.

Neo-natal Deaths (Rate: 27.7 per 1,000 live births).

Registrar-General's figures for this age group are not available but our locally corrected figures show that 191 deaths of infants under one month old were recorded during 1943, giving a neo-natal death rate of 27.7 per 1,000 live births, equal to 61% of the total infant deaths. Although the number of neo-natal deaths is steadily declining, the rate of decrease is not so great as that for infant deaths. Premature births (43%) and congenital malformations (16%) remain the chief causes of this loss of life.

Maternal Mortality (Rate: 1.41 per 1,000 total births).

A comparatively low figure for maternal mortality was again recorded for 1943, but the rate of 1.41 per 1,000 total births was somewhat above the low record of 1.29 for the year 1941.

II. GENERAL PROVISION OF THE HEALTH SERVICES.

Laboratory Facilities (statistics pages 25-27).

The bacteriological, pathological and chemical examinations required by the Corporation are carried out at the Preventive Medicine Department at Canynge Hall under the terms of an agreement between the City and the Bristol University. In January the Council revised this agreement owing to the increased use of materials and the rise in wages and prices due to war conditions. The amount of the increase for the period from 31st July, 1942 to 31st December, 1943 was £3,100. Under the original agreement a grant of £6,536 per annum was paid to the University in respect of this work. It was also necessary to renew certain apparatus costing roughly £280.

In addition it was decided to equip and staff a pathological laboratory at Southmead to deal with examinations which could be conveniently carried out on the spot and to use the facilities at Canynge Hall only for the more complicated examinations. These proposals were approved by the Council in January and the laboratory has been in full operation since June. Towards the end of the year the congested conditions of working in the main laboratory at Canynge Hall made it necessary to appropriate four vacant rooms at the top of the building and adapt them for use as a laboratory at a cost of $\pounds 1,420$.

The question of providing an adequate laboratory at Ham Green still remains an urgent need.

I have received the following report from Mr. F. E. Needs, Public Analyst for the City and County of Bristol on the work of his department during the year:—

Official food standards have long been over-due in this country and it was a matter of considerable satisfaction that the Minister of Health was empowered under section 8 of the Food and Drugs Act 1938 to make regulations regarding the composition of any food. However, this Act did not come into force until October 1939, when the Ministry of Food was in existence owing to the outbreak of war. Since that time the Minister of Food has been empowered to exercise control over all food substitutes, and as a result the position at the present time is much more satisfactory than that during the early years of the war. Furthermore, the necessity of food standards in wartime, when the national diet is only just sufficient to maintain the health of the community, is even more important than in the times of peace, when food is plentiful and choice is unlimited. For that reason, the Minister of Food is now empowered under the Defence (Sale of Food) Regulations, 1943, to regulate the composition of any food, and already Food Standard Orders are issued for mustard, self-raising flour, shredded suet, baking powder and golden raising powder. There are also a number of Statutory Rules and Orders issued by the Ministry of Food governing the composition of soft drinks, sausages and canned meat, canned soups, jam and saccharin tablets. Hence, these regulations are a great advance in food legislation and should equally benefit the consumer, the manufacturer and the local authority.

During the year 2316 samples were examined, of which number, 1479 were submitted under the Food and Drugs Act. Seventy-one of the latter samples were adulterated, equal to an adulteration rate of 4.73%.

Milk samples.

These numbered 990, of which 46 were adulterated, equal to 4.65%. Added water was certified in 35 samples, the highest amount alleged being 17.6% of added water. Only five milks were slightly deficient in non-fatty solids, accompanied by a normal freezing point, indicating that the slight deficiency was due to natural causes and not to added water. Eleven samples were deficient in fat, the highest deficiency being 25%. The mean figures of all milk samples, genuine, adulterated, suspicious and abnormal, were :—Fat 3.59%, Non-fatty solids 8.71%, figures well above the legal standard.

Other food samples.

Of the 20 samples condemned, 13 were infested with either mites, beetles or moths, and it was considered that in the case of one sample the volume of living mites exceeded that of the sample. One whisky contained 11.5% added water, two samples of sausages contained sulphur dioxide preservative, two soft drinks were supplied with misleading labels and two samples of gelatine contained 750 and 580 parts per million of zinc showing that industrial gelatine or glue had been supplied instead of the edible variety.

Many other foodstuffs were submitted, some from the port and the contracts department and others from the chief sanitary inspector, as a result of complaints, fitness for human consumption or alleged illness. Of those samples condemned, a considerable number were unfit on account of infestation.

Drugs.

Of the 45 samples submitted, five were condemned. Two samples of camphorated oil were deficient in camphor, two samples of iodine solution were deficient in iodine, and one sample was grossly excessive in iodine and potassium iodide.

Examinations were made under various Acts, including the Rag Flock Act, the Pharmacy and Poisons Act, and the Fertilisers and Feeding Stuffs Act, and tests for calorific value, pressure and purity were carried out under the Gas Undertakings Acts 1920–1934 at the three gas stations in the city involving practically daily visits. The declared calorific value is 460 B.Th.U. (gross) per cubic foot, and the average value was well maintained throughout the year, being greater than 461 B.Th.U.

The samples under the heading "Miscellaneous" were very varied—from biological material to bricks and mortar. Some of these included urines containing 0.2 mgrm, 0.3 mgrm and 0.68 mgrm of lead per 24 hours specimen, respectively, and one urine contained 8.7 grains of aspirin.

The small amount of liquid contained in two milk bottles was shown to be urine. A hair shampoo, which had caused unconsciousness proved to be practically pure trichlorethylene—a most dangerous stuff for the purpose.

Finally, the water supply of the city was examined regularly as well as the supplies to the various hospitals and institutions of the Corporation, and monthly examinations were made of the atmospheric pollution from a standard deposit gauge at the Clifton Zoological Gardens.

Clinics (statistics page 28).

With one exception (children 1-5 years) attendances at clinics continued to increase during 1943. Compared with 1938 attendances have increased by 21,256 in the case of ante-natal sessions; 818 for post-natal sessions; 5,246 for children under one and 2,380 for sunlight treatment. In the case of children 1-5 years there was a decline of new attendances from 1,258 to 496, from which it would appear that mothers do not take up war work to any extent until their babies are a year old. However, many of these infants are kept under medical and nursing supervision at nurseries and nursery schools.

Treatment of Head Lice.

In July the Ministry of Health issued a circular to Welfare Authorities on the steps to be taken to assist mothers and young children in the promotion of cleanliness and good habits and the elimination of verminous conditions. The preparation "Lethane Brilliantine" recommended by the Ministry was first introduced in Bristol in 1941 upon the advice of Dr. H. G. H. Kearns of the University Research Station, Long Ashton, who recommended the use of Lethane 384 Special (a solution of a mixture of organic thiocyanates in 50% of a highly refined petroleum oil) to combat a severe pest of flies. A single application of 40% Lethane Brilliantine is thoroughly applied to the roots of the hair, followed a week later by a thorough soap and water washing. Immediately after washing the hair is damped with dilute acetic acid and combed to remove all dead nits.

Observations were made on families chosen for their outstanding and persistent infestation which had hitherto defied all efforts and it was found that in every case the lice were killed instantly upon contact with Lethane, the maximum period of immunity from further infestation being 10 days. Results of treatment in families persistently verminous are, of course, only satisfactory where the entire family is treated at the same time and co-operation is obtained. An experiment was made in issuing to parents a small supply of lethane brilliantine free of charge for treatment at home, but this was not very successful as in most cases it was not thoroughly applied to every part of the scalp. Treatment is now only carried out by trained staff at the clinics, except in special cases of children under school age, who for domestic reasons cannot be brought to the clinic, when the treatment is carried out by a health visitor at homes or in schools.

Great attention is paid to the question of verminous heads in school children, all suspected cases being sent to the clinics for examination and treatment, and where the co-operation of the mother is obtained the scheme works satisfactorily with a definite improvement in the condition of heads. There is, unfortunately, in many cases a measure of indifference to verminous conditions, a few nits or lice being regarded as a normal state of affairs, and in these families the children are constantly being re-infected after having been effectively cleaned at the clinic. The co-operation of the chief sanitary inspector is obtained where necessary in taking steps for the treatment of adult offenders and for the disinfestation of bedding and clothes. In order to overcome the apathy and indifference of some of the mothers the teaching of cleanliness is stressed at the ante-natal centres, where every mother's head is examined as a routine measure and steps taken where necessary to have it cleansed. A great deal more teaching of the mothers of school children, however, is needed.

Fine tooth combs can be purchased at the clinics for 3/- and an increasing number are being sold. Where parents are unable to pay this amount a comb can be lent.

Treatment of Scabies (statistics page 33).

The Scabies Order, 1941, gives power to require the examination and treatment of persons suffering from scabies. The measures taken to overcome this distressing and irritating condition have been particularly successful in Bristol where patients are first bathed before the application of the remedial emulsion (benzyl benzoate for school children and adults; sulphur cream for younger children). Heat treatment of clothing and bedding follows in all cases and great appreciation has been expressed for the rapid cure effected by these methods. Although scabies is not notifiable a considerable degree of co-operation between general practitioners and the Health Department has been achieved and every endeavour is made to treat the family as a unit and not only the individual patient. Where patients are referred to the local treatment centre the case and family contacts are investigated by sanitary inspectors, who on occasion found it necessary to advise complete families to be treated.

Details of treatment at the various centres indicate a decrease in the number treated, despite the fact that the Health Committee agreed during the year to treat cases from Bathavon, Frome and Keynsham District Councils and from Axbridge. An additional treatment station was opened in April at the Gas Cleansing Station, Avonmouth, and in November female cases were transferred from Mayor's Paddock Baths to the Gas Cleansing Station, Marybush Lane.

Dental Treatment (statistics page 32).

Since the outbreak of war the joint dental surgeons employed by the Corporation for dental work in city hospitals and institutions, health centres and clinics, have been called up for military service and with the difficulty in obtaining full-time dental surgeons it has been necessary to obtain part-time assistance in order to continue these services.

Patients at Southmead Hospital are now treated at three sessions each week, the two additional sessions being devoted mainly to the care of Service patients. Weekly visits were paid to Ham Green, Hortham Colony and Stapleton Institution, and monthly attendances at Charterhouse and Frenchay Park Sanatorium. Treatment was carried out at Snowdon Road Hospital on occasions when several patients required multiple extractions. The dental condition of the children at the Downend Homes was found to be very satisfactory. Altogether a total of 1,648 treatments were given to patients in city hospitals and institutions.

Maternity and Child Welfare attendances have been good and it is encouraging to notice, particularly among the younger women, an increasing appreciation of conservative treatment.

HOSPITALS.

General.

During the year the pressure on hospital beds, especially for chronic sick cases, became acute. In view of the great difficulties in obtaining additional accommodation and staff it was decided to ask the Ministry of Health for authority to engage home nurses to deal with chronic sick cases in their own homes and for home helps to assist with domestic duties in such cases. Unfortunately, these proposals have not received the official approval of the Ministry of Health.

In May the regional hospital officer permitted certain types of case to be sent from Bristol to St. Martin's Hospital, Bath, to release beds for chronic sick, and some of the beds reserved under the Emergency Hospital Scheme are now in use, but the problem still remains serious, particularly in regard to female cases.

The greatly increased demand for maternity accommodation continues and though Cedar Hall, Frenchay, was opened at the end of January as a maternity annexe to Southmead Hospital, taking twenty cases, it has been necessary to seek further accommodation. In October the Council approved the acquisition of Mortimer House, Clifton, at a cost of $\mathfrak{f}9,000$. Minor alterations and additions to the heating system will cost $\mathfrak{f}600$ and the equipment and furniture is estimated at $\mathfrak{f}1,400$. These premises will accommodate forty maternity patients, and provide a maternity and child welfare clinic, including ante-natal, immunisation and treatment of minor ailments, waiting room and offices for the district health visitor, district midwife and district sanitary inspector. When Mortimer House is ready for occupation in July it is proposed to transfer the twenty maternity beds from Cedar Hall and to use the latter building for additional nursery accommodation.

Apart from the difficulty of providing adequate hospital beds under war-time conditions, the shortage of hospital orderlies and domestic workers remains a serious problem. In the case of Ham Green and Charterhouse Hospitals the position threatens to curtail the work of these institutions. In September a resolution of the Health Committee was sent to the Minister of Health, and the Minister of Labour and National Service drawing attention to this serious deficiency and asking for more energetic use of the Minister of Labour's power to direct women into this employment and to retain those already in the service.

The Rushcliffe Committee recommendations for the salaries of nursing staff were adopted by the Council on 1st April.

Southmead Hospital (statistics page 36).

The most important development at Southmead during the year was the erection of a prefabricated building providing two wards for the treatment of venereal disease (full details will be found under the heading "Treatment of Venereal Disease" on page 13) and the extension of maternity accommodation mentioned above. In addition to the acquisition of Cedar Hall, part of the casualty department in the Monks Park Clinic vacated by the First Aid Post has been converted into a maternity ward containing twenty beds.

Following the Government report on "The Rehabilitation and Re-settlement of Disabled Persons" steps are being taken to organise a Rehabilitation Department at Southmead Hospital, but the ultimate development of this service is, of course, dependent on the provision of adequate equipment and accommodation. Two masseuses were sent to the Government Training Centre at the end of the year and the Deputy Medical Superintendent has also attended a short Rehabilitation Course.

The increased demand for institutional provision for the chronic sick has already been mentioned, and Snowdon Road Hospital worked to full capacity during the year.

Ham Green Hospital (statistics page 36).

One of the greatest problems at Ham Green Hospital during the year has been the lack of adequate staff, both nursing and domestic workers. The position with regard to non-resident staff has been eased by the provision of daily transport from Bristol but there is still a considerable shortage of nurses and domestic workers.

In order to provide additional accommodation for patients G and H wards, used as a wardens' post and casualty department since the commencement of the war, have reverted to accommodation for patients and K Block, former staff quarters, has been reconditioned to provide additional beds for observation cases. In addition, six chalets formerly used only during the summer months have been provided with heating to enable them to be used throughout the year. As a result of these measures the available beds have been increased by 32.

In addition to the 62 beds for cases of infectious disease at Charterhouse Hospital, there are now 50 beds available for early female cases of tuberculosis and these have proved extremely useful in keeping the waiting list down to a very small number.

Frenchay Park Sanatorium (statistics page 36).

Since March, 1942, the investigation of "observation chests" at Frenchay Park Sanatorium has been considerably facilitated by weekly visits from Mr. R. Belsey, M.S., F.R.C.S. During 1943 90 bronchograms were done, almost all under anaesthesia, and these have made possible more rapid investigation, thus shortening the list of those awaiting admission.

Owing to the difficulties in obtaining orthopaedic appliances plaster splints have been extensively used and have proved satisfactory.

A carpentry class under a trained instructor has been started for the boys and another in shoe-making and mending will commence shortly.

Stapleton Institution.

Dr. S. Datta, Medical Officer, Stapleton Institution reports as follows: -

"The number of resident patients shows a marked decrease. This is in some measure due to a diminution in the number of patients admitted under the Lunacy Acts for the purpose of certification and transfer to the Mental Hospital. The reason for this is presumed to be the greater use now made of the provisions of the Mental Treatment Act, 1931, for the admission of patients direct to the Mental Hospital.

During August and September there was a moderately severe outbreak of Sonne dysentery in the Institution.

Nursing staff difficulties have now reached a point which is nothing short of deplorable. After the passing of the recent Act regarding assistant nurses the Committee felt it opportune to start a training school for assistant nurses. A Preliminary Training School is already working under the direction of a whole-time Sister tutor but the demand for training and instruction in this category of nursing does not appear to be very great.

For some years after the commencement of the war the institution continued to be recognised as a "second line" emergency hospital. This recognition has now been withdrawn, a commendable decision having regard to the very difficult staff problem at the institution.

Casualty Services.

The main feature during the year has been the gradual re-organisation of the various units of the casualty services to become increasingly dependent on part-time personnel. To meet the deficiencies in numbers caused by the release of whole-time personnel required by the Regional Commissioner, the Ministry of Labour and National Service directed 211 men and 382 women to part-time service during the year, almost all of whom required full training for the duties to which they were allocated.

Action Depots.

The senior depot officers of the part-time depots should be specially mentioned for the way they have received and handled the great influx of untrained personnel. The reduced whole-time staff have continued to perform extraneous duties required of them in connection with hospital and nursery evacuation, and transport of supplies. The reduction in number of the ambulance personnel necessitated re-distribution of vehicles so as to place a larger portion at the disposal of part-time drivers and attendants. Three subsidiary ambulance stations were created for this purpose.

By arrangement with the Ministry of Labour, short courses of instruction were given to all full-time drivers at a Government training centre in Bristol to enable them to deal with minor running repairs. In order to economise further in administration and manpower the repair and maintenance of the vehicles of the rescue service, the communications service and of the mobile canteens has been undertaken by the ambulance officer and his staff at the two repair depots.

First Aid Party Service.

In April, upon the direction of the Minister of Home Security, all members of the first aid party service were drafted into the rescue service, and as part of a new combined rescue service are maintaining their knowledge of first aid as well as learning the technical details of rescue work.

First Aid Posts.

There has been a considerable reduction in full-time staff attached to the ten fixed first aid posts. The doctors in charge look upon this with some anxiety and especially upon the lack of trained nurses.

Mobile Units.

Following the calling up for military service of the few drivers capable of managing heavy vehicles, these are being replaced by light units, consisting of a doctor, sister and two auxiliaries, who travel in a light car with equipment for immediate care only.

Ambulance Service.

In order to meet the urgent need of the new rescue service for more vehicles, 17 emergency ambulance cars have been transferred. The full-time (paid) establishment of the ambulance service has recently been subject to review by the Ministry and the number authorised has been reduced. Ambulances are now available to answer calls by the N.F.S. to fires during non-raiding periods.

Gas Decontamination.

In addition to the approved cleansing centres a large number of people have been trained under the housewives service to give washing facilities to people who may become contaminated by blister gas near their homes. Special out-door boiling tanks have been installed at the principal private laundries for the decontamination of public clothing.

Women's Voluntary Services.

In addition to their valuable services in connection with canteens, evacuation and clothing, the W.V.S. are now responsible to the Regional Commissioner for the enrolment and operation of a voluntary car pool, which is available for transport dutics other than in connection with civil defence.

III. MATERNITY AND CHILD WELFARE (statistics page 28).

Midwifery Service.

The report of the Midwives Salaries Committee has been adopted by the Council as from 1st April, 1943. In order to bring into operation the revised hours of duty and leave recommended in the report, the appointment of three additional midwives was approved in September, making a total of 32 domiciliary midwives.

Home Helbs.

The growing tendency for women to prefer confinement in hospitals or nursing homes has reduced the number of domiciliary midwifery cases. One of the main reasons is undoubtedly the great difficulty in obtaining domestic assistance, and during the year the Health Committee decided to appoint six full-time home helps, based on health centres, who are sent as required to homes where confinements have taken place or are imminent, and who undertake the domestic duties of the household. There is an increased demand for this service and it is proposed to employ an additional six home helps in the near future.

Nursery Accommodation.

As stated in previous reports, the babies' homes of the Guardians were appropriated under the Maternity and Child Welfare Act in 1930 and have been administered since by the Health Committee as a residential nursery nurses

training college.

During war-time there has been a considerably increased demand for short-stay nursery accommodation. In an endeavour to cope with this problem a third nursery (Fienchay House, which accommodates 20 children) was opened by the Health Committee in January. This brought up the total accommodation to 103. During the year 326 children were admitted to the city's residential nurseries at Babics' Home, Downend, Frenchay House and Frenchay Lodge. Additional day-room accommodation was approved by the Council at these nurseries in April by the acquisition of three maycrete huts from the Government at a cost of £1,739. Difficulties arose, however, in obtaining suitable huts and components and it was not possible to erect them during 1943.

Evacuation Nurseries—Residential.

There are 17 evacuation nurscries established in reception areas for Bristol children, seven of which are administered by the Education Department. The Health Committee were originally made responsible for the evacuation nurseries for children under two and sick children under five, but owing to the great distances involved it was found impossible to give them the constant supervision necessary in the case of such young children and all these nurseries are now administered by the county medical officers concerned, with the exception of Penscot, which owing to its close proximity to Bristol has been retained by the Health Committee. These evacuation nurseries provide accommodation for 437 Bristol children.

War-time Day Nurseries.

By the end of 1943 18 war-time day nurseries had been opened, providing accommodation for 705 children under five. Although the attendance at the nurseries fluctuates for various reasons, e.g. illness, school holidays, mother giving up work—the attendances are considered to be satisfactory. Of the 484 mothers on war work taking advantage of the scheme, 91% have one child at a nursery, 8.3% have two, and .7% have three.

Adoption of Children (Regulation) Act, 1939.

This Act became operative on the 1st June, 1943, and the Health Committee assumed responsibility for adoptions under the Act. During the year 48 applicants were registered as prospective adopters, 28 children were placed and 15 legal adoptions completed. Notice was given by 28 prospective adopters who were making arrangements for adoptions through other agencies. This work involved 310 visits and 720 interviews.

IV. SANITATION, HOUSING, INSPECTION OF FOOD (statistics page 37). General Sanitation.

Unsatisfactory environmental conditions gave rise to 2,878 complaints. The matters investigated covered a wide range and although due allowance had to be made for shortage of labour and materials, a considerable degree of satisfaction was obtained from the action taken, though in many cases requirements had to be reduced to a minimum. Other visits and action under the heading of general sanitation include offensive trades, camping sites, places of public entertainment, air raid shelter hygiene, water supplies, disinfection and disinfestation, smoke and grit nuisances, defective drainage, infectious disease inquiries (smallpox, typhoid, etc.), factories and workplaces and inspection of salvaged foodstuffs. The inspectors also took an active part in health education of the public with demonstrations and lectures.

Water Supply.

A constant supply of water of a high standard of purity was afforded during the year by the Bristol Waterworks Company. The number of dwelling houses connected to the mains is 109,434 and although no actual count has been taken of the houses which are not supplied directly or by means of standpipes the number is thought to be exceedingly small. The supply has no appreciable plumbo-solvent action.

Housing.

One of our chief concerns is the maintenance of good housing conditions in the city. Lack of materials and shortage of labour held up real progress under the Housing Act, but every effort has been made to make the best use of such housing accommodation as can be considered reasonable under present circumstances. A minimum standard of housing conditions has had to be accepted and from time to time certain properties are found to be in such a condition that it is not possible to visualise any works which would render them even tolerably fit. In such cases the necessary representation has been made to secure demolition or closing orders. The department hesitates to take this action, adding as it does to the general lack of housing accommodation which is so acute that even applications to temporarily re-let houses subject to clearance orders have been favourably considered.

All complaints regarding unsatisfactory housing accommodation received attention and where found urgently necessary, applications for alternative accommodation were strongly supported to the housing manager's department. In addition, many visits have been made and opinions given with reference to the future of properties made the subject of official inquiry by owners and other interested persons.

Supervision of Milk Supplies.

The total app.oximate daily distribution of liquid milk in the city is 35,000 gallons and of this amount more than 75% is processed by heat treatment (pasteurised and sterilised). All milk supplied to schools and institutions under the control of the Bristol Corporation is either pasteurised or tuberculin tested. Routine inspections were carried out at farms producing milk in the city, pasteurisation plants, milk storage depots, dairies and milkshops, and every effort was made to ensure satisfactory treatment and standard of cleanliness in production and distribution. A large number of samples were collected and submitted for chemical and bacteriological examination, and the necessary measures taken with regard to unsatisfactory supplies.

The institution of a "milkless" day in Bristol is a matter of concern and strong representations have been made to the Ministries of Labour and Food, and other bodies in an effort to re-establish a seven-day delivery, so far without success.

Meat Inspection.

Under the Ministry of Food scheme, Bristol is a slaughtering centre for the western area. During the year a total of 124,370 carcases at the public abattoir, Hotwells lairs, bacon factories, and all animals slaughtered for institutional use were inspected. Meat inspection protects the public from dangers that might arise from the consumption of unfit food and efficient examination before release in this city or to other towns and districts in the zone is essential. In 1943 over 238 tons of meat were condemned as unfit for human consumption.

Inspection of Food Premises.

Generally these establishments are kept in a reasonable state of cleanliness. This is highly satisfactory having regard to the shortage of labour and materials necessary to maintain hygiene. It is found, however, that a number of food preparing premises leave room for improvement, and in spite of recent successful prosecutions strong warnings have been necessary in cases where flagrant contraventions of hygienic standards were observed. Supervision of these premises, so particularly necessary under war-time conditions, has been most difficult because of lack of adequate inspectorial staff.

Food Sampling, Poisons, Fertilisers and Feeding Stuffs.

A large number of samples of food were submitted to analysis for adulteration, deficiency, unlawful preservative or other contravention of the respective acts or regulations and proceedings followed infringement in five cases. Visits to premises selling substances classed as part II poisons disclosed a number of instances where articles were improperly stored or being sold without a licence. All samples of animal feedingstuffs were found to be satisfactory on analysis. Effective action was taken with regard to noxious weeds and clearance of land, although labour shortage caused some difficulty in this connection.

Rag Flock Act.

Samples of rag flock used in the manufacture of bedding and upholstery work taken for the purpose of analysis revealed a satisfactory standard of cleanliness well within the limits prescribed in the regulations.

Food Decontamination Service.

During the year additional food treatment squads have been trained in this work by the health department in collaboration with the A.R.P. controller's decontamination staff. The inspectorate have taken a great interest in these duties, and have attended lectures and demonstrations in the western area. Demonstrations with real mustard gas staged at Avonmouth Docks were attended by a large number of A.R.P. officers and the regional training officer of the Ministry of Food and Home Security had expressed satisfaction as to the practical, efficient and workmanlike manner in which the treatment was carried out. Every effort has also been made to acquaint the general public with the measures to be taken to prevent contamination of foodstuffs in factories, warehouses and domestic buildings, and a gas-proof food container has been perfected in collaboration with the public analyst.

The Ministry of Food has decided that the food treatment establishment for Bristol shall be 200, and weekly training and refresher lectures and demonstrations given outside the normal office hours are being attended by 150 members of this

service.

Destruction of Rats and Mice.

Under the Rats and Mice (Destruction) Act, 1919, it is the duty of occupiers of premises to exterminate rats and mice. During the year a total of 1,299 complaints of infestation by rats and mice were recorded. The rat officer with a team of rat catchers and in co-operation with the district inspectors took a hand in dealing with these pests. Damage by enemy action caused a wide dispersal of the rat population in the city and port areas and a special effort was commenced to reduce the rat population in all industrial and domestic premises. In addition, the public sewers were baited and other conditions favourable to the breeding and harbourage of rats, such as bombed sites, received constant attention; where necessary representations were made for the removal of debris and other accumulations. In this way, and by free advice as to the most effective measures of rat proofing buildings a continuous drive has been maintained to prevent the menace assuming formidable proportions.

V. PREVALENCE AND CONTROL OF INFECTIOUS AND OTHER DISEASES

(See Appendix, Tables 2-8 pages 18-24).

Dibhtheria.

The number of deaths recorded (namely five) is the lowest during the last 50 years. Although held in check by immunisation (the average for the last 10 years being 30% below the average for the preceding 10 years) the disease continues to be fairly prevalent, incidence being highest in the age groups 4–8 years. During the last 20 years a five-yearly cycle has been observed in the incidence of diphtheria. The years 1942 and 1943 being the mid-years of the current cycle are of low ircidence and it remains to be seen as to whether the large-scale immunisation recently undertaken will interfere with the increase in incidence which might be expected next year in the natural course of events.

Scarlet Fever.

The incidence of scarlet fever has declined over the period of the last 20 years, this year's total of 913 cases being about average for the latter part of the period.

Cerebro-spinal Meningitis

There were 27 cases of cerebro-spinal meningitis notified in 1943. This is above the number notified in peace-time years but is very much less than the comparatively high figures 119 and 132 recorded in 1940 and 1941. The number of deaths is related to the incidence, amounting to a total of 76 for the war years so far, equal to 23% of the cases notified. During the last war of a total of 155 cases notified 99 (64%) resulted in death.

Measles.

Measles, which had been absent from the list of notifiable diseases since 1920, again became notifiable on the outbreak of war. The Bristol case rate of 13.96 for 1943 was 50% in excess of the rate for all county boroughs and great towns, but this high case rate did not result in a large number of deaths. Although the number of cases notified was 5,173, the number of deaths (6) remained at about the average for the last five years.

Whooping Cough.

In contrast to the relatively high incidence of measles as compared with the whole country, the whooping cough incidence rate was only about one-third of that in the 126 county boroughs and great towns.

Tuberculosis.

Since 1939, when there was recorded the lowest number of cases since pulmonary tuberculosis became notifiable, there has been an increase in the number of notifications each year, 598 for 1943 being the highest recorded since 1931. Although the number of deaths recorded from the pulmonary form is higher than that for 1942, there is as yet no evidence of any change in the downward trend since 1929.

The incidence of non-pulmonary tuberculosis, which remained fairly constant during the 1930's has shown a tendency to decrease during the 1940's to date; but there has been a marked increase in the number of deaths from this type in the past four years.

The percentage which the total tuberculosis deaths bears to the total deaths from all causes, (6.2%) should not be underrated for it will be observed from the age group classification that considerably more than half of these deaths occur under 45 years of age. Compare this with cancer (see below) where although the percentage of the total is much higher, over half the deaths are of persons over 65 years of age.

Respiratory Diseases other than Pulmonary Tuberculosis.

The influenza epidemic of 1943 resulted in 109 deaths from this cause, giving a death rate of 0.29 per 1,000, a slightly lower figure than that for the whole country. The full effect of the epidemic is not, however, apparent from these figures; there was an increase in the number of deaths from other causes, especially amongst the higher age groups, where influenza was probably also a factor. This was particularly so in the case of pneumonia (death rate 0.72 per 1,000) and bronchitis (death rate 0.82 per 1,000) where increases over the previous year of 14% and 64% respectively were recorded. The war years commencing with 1940, which was the highest, have brought a substantial increase in both of these diseases as a cause of death, the average rates for the four years being pneumonia 0.75 and bronchitis 0.87 compared with average rates for the previous ten years of 0.57 and 0.38 respectively.

Cancer

Caucer remains the second highest cause of death, accounting for over 16% of all deaths in 1943. Apart from the early war years (1940-1942) when there was some decrease, the total number of deaths from cancer has shown a steady increase since the beginning of the century.

Heart Disease.

Heart disease is still the principal cause of death, accounting for 25.4% of all deaths with 76% occurring amongst people over 65 years of age. There were 1,168 deaths from this cause during the year. The record high figure of 1,609 deaths recorded for 1939 has been followed by lower figures for each succeeding year of the war, so that the rate of 3.15 per 1,000 population represents a return to pre-war levels.

In my report for the year 1928 attention was drawn to the fact that the death rate from this cause had doubled when compared with the years 1920 and 1921, and the registrar-general was quoted as attributing this considerable increase to the "increasing age of the population and to some extent to a change in certification consisting in an increased tendency to record myocardial degeneration on the certificates of death from causes giving rise to it." This tendency to increase has continued so that over the past 20 years the rate has been trebled, 3.15 per 1,000 compared with 1.11 for 1920. This continuing increase may still be attributable in some measure to the above noted causes.

Diphtheria Immunisation (statistics page 33).

In July the Ministry of Health announced a national publicity campaign and steps were taken to intensify local propaganda. Pamphlets were prepared for the use of teachers and every child took home a copy of the circular letter from the Minister of Health. Literature was distributed to general practitioners, district nurses, midwives and voluntary bodies interested in health work; the co-operation of members of the clergy was obtained in advising doubting parents, and posters were widely distributed throughout the city.

In this way an effort has been made to build up a body of informed opinion in the city to combat a great deal of misunderstanding which still exists among the general public. We are convinced, however, that it is through the medium of personal approach that the majority of parents are persuaded to take action. In this matter the health visitors, midwives, district nurses and school teachers were asked to make it their primary concern to use their influence to obtain parents' consent.

There are three main channels for dealing with applications for free immunisation under the scheme:—

- (1) Children under five, although they may go to a school to receive injections at the same time as their older brothers or sisters are mainly dealt with at the health centres and clinics. Special immunisation sessions are held at each centre but the service is also available at all times by appointment. In some instances special sessions have been held in hired premises, where there was a local demand at some distance from a clinic.
- (2) Applications in respect of school children are received by head teachers, and as the children are conveniently congregated in the school building arrangements are made as necessary for an immunisation team of doctor with one or two nurses to carry out injections on the school premises. In this way, loss of school time and the doctors' time is reduced to a minimum.
- (3) A general practitioners' scheme is in operation whereby parents may take their children for free immunisation to a practitioner if he is enrolled in the scheme. They account for approximately 25% of the immunisation of children under five years of age and receive their fees direct from the Corporation. The Health Committee provide the immunising material and material for Schick tests free of charge.

The combination of the foregoing factors has achieved remarkably good results; 8,000 applications were received through schools, I,500 applied through the clinics and the numbers notified from general practitioners have shown a steady increase. Taking the period of protection to be four years after the completion of the injection it was estimated at the end of the year that the total number of children immunised was equal to 50% of the children under five years, and 70% of the children aged 5-15.

The policy recommended is that a child should be immunised as soon as possible after the age of nine months and receive a booster injection at four years nine months (just before commencing school) if the original injections have been given more than two years previously. A further booster dose should be given after a lapse of another four years.

The material used is the Ministry A.P.T. Two doses, 0.2 ccs. for the first and 0.5 ccs. for the second are usually given for the original course. The booster is a single injection of 0.5 ccs. It has been found that in practice over 90% of cases receiving the full course of injections are Schick negative, but owing to shortage of medical staff it has not been possible to carry out these tests.

It was necessary to increase considerably the number of sessions in schools and clinics to deal with the large number of applications, and to seek assistance from external sources, after re-allocation of the work of the department in order to give priority to immunisation. Doctors were loaned from the University departments and from the Army blood supply depot and school inspections were temporarily deferred.

The foregoing arrangements have been augmented by follow-up schemes. The parents of every child reaching the age of nine months will in future receive an information leaflet and consent form, together with particulars of how to obtain the free service. Records of immunisations are carefully preserved so that just before a child reaches school age, the parent will receive a letter recommending the booster injection where more than two years have elapsed since the original injections.

Tuberculosis.

Financial Assistance (statistics page 34).

The Government scheme of financial assistance to men and women undergoing treatment for pulmonary tuberculosis came into operation in June, 1943. Under this scheme maintenance allowances based on a standard scale and without any test of means, discretionary allowances on proof of need towards meeting standard charges in cases where the patient would be unable to meet these liabilities, and special payments to meet special circumstances are made, provided the patient follows a course of treatment advised by the tuberculosis officer. A welfare officer, one clerk and two additional health visitors have been appointed to carry out this scheme and details of their work up to the end of the year will be found on page 34, Table 12.

Mass Miniature Radiography.

In October, 1942, a formal request was made to the Ministry of Health for the allocation to Bristol of mass miniature radiography apparatus, which enables groups of persons to be examined in a very short space of time at a single centre. The apparatus will cost £2,000, including accessories, and will be operated from the central health clinic. Owing to war conditions it will not be possible to make full use of the apparatus, which will ultimately be mobile and used in a wide area. Staffing arrangements have been made therefore to cover the first year by the appointment of a director of radiological services, a medical director of mass radiography, radiographer, dark room assistant, an organising secretary and two clerks. It is hoped to bring the scheme into operation during 1944 and at first the examinations will be confined to school leavers and entrants to the Corporation service.

Diabetes-Supply of Insulin.

In January the Ministry of Health authorised local authorities to supply insulin at a reduced price to persons suffering from diabetes who found the increase in the cost of insulin since the start of the war a financial burden. Arrangements have been made for supplies to be obtained through municipal health centres and at Bristol Royal Hospital.

Treatment of Venereal Disease (statistics page 35).

Before the outbreak of hostilities the Health Committee had under consideration proposals for the re-organisation of the scheme for the treatment and prevention of venereal diseases. The greatly increased incidence of these diseases re-opened the question of an extended service as a matter of urgency and on January 1st a new clinic was opened at Avonmouth for the treatment of seamen. Seventy-five per cent. of the capital and maintenance costs is borne by the Ministry of Health,

During the year the entire port administration has been re-organised to meet the increased war-time demands and a chief assistant port medical officer and an assistant port medical officer have been appointed full time. These medical officers in addition to the medical supervision of the port and airport regularly attend the docks V.D. clinic and have been provided for the latter purpose with the assistance of two trained male orderlies.

In 1942 the Council approved the erection of a special block at Southmead Hospital for the in-patient treatment of men, women and children suffering from venereal disease. This new block will be adjacent to, but staffed separately from the main hospital; it will provide for 26 male and 26 female in-patients and will include cubicle wards, consulting rooms, treatment rooms and day-rooms. The Ministry of Health are supplying the necessary hutting free and are contributing substantially towards the cost of erection (£5,577), two-thirds being subject to 75% grant. The cost of furniture and equipment is estimated to be £2,080 and the annual maintenance cost £14,930. Accommodation for the nursing staff will be provided in two mayorete huts, the cost of which, after allowing for government grant, is estimated at £469.

This provision for in-patients, which it is hoped will be completed in 1944 will be in substitution for the present beds maintained at Guardian House and the Royal Infirmary. It is proposed that in future Guardian House shall be administered directly by the Health Committee and will be utilised for out-patient treatment only. Facilities are available at Guardian House for female out-patients and in addition a special female out-patient department was established at Southmead Health Centre under a woman medical officer in June in the rooms which were originally designed for this purpose.

Two venereal disease welfare workers (male and female) have been appointed by the Council. They attend regularly at the various venereal disease health centres and work in close co-operation with the medical officers, health visitors and representatives of official and voluntary bodies concerned with social and moral welfare problems.

In October the assistance of U.S.A. nurses trained in venereal disease social work was offered by Lieut. Colonel Paul Padget of the Medical Service of the U.S.A. Army and their advice and assistance have been much appreciated.

Typhus Teams.

Two teams have been organised in this city to deal with any case of typhus fever. Each team consists of a medical officer, six nurses (two reserve), three sanitary inspectors, two ambulance drivers and two men to form a disinfecting party. In addition, one disinfestation team, consisting of eight men is stationed at the disinfecting station. All members of the team have received protective inoculation and clothing, and a plan of action has been worked out which will be adopted whether dealing with infected aircraft or ships.

Cancer Act, 1939.

In February a report was submitted to the Health Committee on the proposed scheme for the treatment of cancer. The main features are as follows:—

- (1) The Council will provide all necessary facilities so that every person in the city who is or is suspected to be suffering from cancer may obtain advice, and that every such person who is found to be suffering may obtain adequate treatment. In particular the Council will provide the facilities set out in the following paragraphs.
- (2) The Council will provide by agreement with the governing body of the Bristol Royal Hospital and at Southmead Hospital hospital treatment and where necessary in-patient accommodation for all persons in the city who are suffering from cancer.
- (3) The Council will pay to medical practitioners a fee of 2/6 for each Bristol case notified to the medical officer of health as cancer or suspected cancer.
- (4) The Council will provide facilities for consultation, including both diagnosis and medical observation after treatment, as follows:—
 - (a) Preliminary diagnostic centres at the Portway, Speedwell, Southmead, Central, Bedminster and Knowle health centres of the City Council or such other places as they may from time to time determine,

(b) By agreement with the governing body of the Bristol Royal Hospital a consultative clinic at the Bristol Royal Hospital.

They will arrange for the attendance of medical practitioners at the preliminary diagnostic centres at such times as may be necessary and for the attendance of consultants at the consultative clinic. These facilities will be available for persons who are suffering or suspected to be suffering from cancer.

- (5) In addition to the general arrangements set out above, the Council may provide for the diagnosis and treatment of any individual case at such hospital or other institution and in such manner as seems desirable.
- (6) The Council will in such cases as they consider necessary pay all or any of the travelling expenses (including the travelling expenses of a companion) reasonably incurred by persons for the purpose of availing themselves of the services provided under these arrangements.
- (7) The Council will arrange for records to be kept, in such form as the Minister of Health may from time to time approve, of treatment provided under these arrangements and its results, and will send such records or copies thereof to any person for the time being designated by the Minister.
- (8) The Council will by such means as appear desirable give such publicity to these arrangements as they may think necessary for bringing them to the notice of persons to whom they may apply.

In August, after discussion with the Ministry of Health, the scheme had been informally approved by the Ministry subject to clause 3 relating to the payment of notification fees to general practitioners being deleted. The Ministry further wished the Council to consider whether a scheme could not be evolved under which Gloucestershire, Somerset, Wiltshire, Bath, Gloucester City and Bristol would set up a joint committee for the operation of a joint scheme. Under the Ministry's suggestion there would be a director paid jointly by all the local authorities interested charged with the control and direction of the scheme within the hospital.

A conference with representatives of adjoining authorities was held on 29th October to discuss the Ministry's suggestions. There was general opposition to a joint board with executive powers but it was suggested that representatives of local authorities concerned should be appointed on the sub-committee of the Royal Hospital dealing with cancer. It was agreed also that each local authority should appoint one representative with its medical officer of health to examine the schemes of the local authorities and discuss generally matters affecting the scheme.

Port Health.

This is the "first line" of defence of the public health service and of great importance not only to the city but to the country as a whole. Ceaseless efforts are made to prevent major infectious diseases from entering the country. Port medical officers and health inspectors are continuously on tidal duties throughout the year, and despite the close contact which the port has with countries where serious infectious diseases are present, no cases traceable through the port appeared in the city during the year. All ships from infected or suspected ports have been carefully inspected on arrival and kept under close observation during their stay. Foodstuffs passing through the port have been carefully inspected and close collaboration maintained with the various commodity officers attached to the Ministry of Food.

Crew Accommodation and Seamen's Welfare.

Maintenance of crew accommodation in good condition has been stressed in all cases found below standard. The co-operative efforts of the various authorities concerned have succeeded in remedying many matters needing attention.

A great deal has been done during the year to increase and modernise the accommodation provided for the general welfare of seamen during their short but well-earned respite in port. The Merchant Navy Club at Avonmouth, which is extremely popular and well patronised by seamen of all the allied nations, was erected by the National Service Hostels Corporation and opened to seamen in July, 1943.

The various societies catering for seamen's accommodation and comfort deserve praise for providing restaurants with snack bars, reading and writing rooms, bathing facilities, billiards and other indoor sports, concerts and cinema shows which are frequently held. Apart from the fact that there is a great need for these establishments, there is no doubt that their popularity is in no small measure due to the efforts of the Port Welfare Committee and other welfare organisations who are showing whole-hearted interest in making our seamen's leisure hours ashore as happy and comfortable as possible.

Deratisation of Ships.

The detection of rodent plague is one of the most important duties of the Port Health Authority. All vessels are thoroughly examined for rat indications and measures taken to prevent the introduction of bubonic plague included the pathological examination of 390 rats. The port sanitary regulations require that The port sanitary regulations require that all foreign-going ships shall carry a deratisation or deratisation exemption certificate. These certificates are valid for six months and must then be renewed. During the year the number of certificates issued were as follows:—

> Deratisation Deratisation exemption ... 152

Deratisation was carried out by cyanide fumigation in every instance. In addition measures of rat repression were carried out on the docks, quays, wharves and warehouses. From the 3,126 rats destroyed 376 were submitted for pathological examination.

Dock Sanitation.

The sanitary conveniences in the dock area for male and female workers were regularly inspected for condition and adequacy and collaboration with the Dock Authority resulted in the erection of a number of new public conveniences during the year.

For smooth and efficient port health administration it is necessary to maintain close contact with a large number of officers including H.M. Customs, Docks Authority and Board of Trade, and thanks are due to them all for their ready co-operation. A separate abridged report has been prepared and sent to the Ministry of Health on the work of the Port Health Authority.

In conclusion, I wish to express my appreciation of the courtesy at all times extended to me by the Chairmen and members of the various committees of the Corporation, particularly to the Chairmen of the Health and Education Committees, and to the chief officers of the Corporation. Such assistance and co-operation have greatly facilitated the work of the department throughout a difficult year.

Finally, I wish to acknowledge my indebtedness to my fellow workers in the department for their loyal assistance throughout the war years.

I am, my Lord Mayor, Ladies and Gentlemen,

Your obedient servant,

R. H. PARRY.

Medical Officer of Health.

PUBLIC HEALTH DEPARTMENT, BRISTOL,

June, 1944.

A.—VITAL STATISTICS.

Table 1.—Supplied by the Registrar General.

Population, marriages, births, deaths, natural increase, infant mortality, for calendar year 1943 and previous four years.—Bristol.

	1943	1942	1941	1940	1939
Estimated civilian population (mid year)	370,800	362,200	360,150	411,400	419,200
Marriages. Number Rate per 1,000 population	3,123 16.8	4,131 22.8	4,125 22.9	5,099 24.79	4,860 23.19
Births. Legitimate—males females Illegitimate—males females formales Total Rate per 1,000 population	3,369 3,082 214 220 6,885 18.57	3,164 2,956 158 144 6,422 17.73	2,614 2,516 113 136 5,379 14.94	3,180 2,973 100 110 6,363 15.47	3,106 2,929 98 86 6,219 14.84
Stillbirths. Legitimate —males females Illegitimate—males females Total Rate per 1,000 total births	101 97 5 6 209 29	123 96 8 3 230 34	88 82 5 8 183 33	117 103 4 4 228 35	133 108 8 4 253 39
Deaths. Males Females Total Rate per 1,000 population	2,327 2,271 4,598 12.40	2,203 2,162 4,365 12.05	2,841 2,772 5,613 15.59	3,176 3,240 6,416 15.60	2,576 2,578 5,154 12.29
Natural increase per 1,000 popula- tion	6.17	5.68	decrease .65	decrease .13	2.55
Deaths under 1 year. Legitimate Rate per 1,000 births Illegitimate Rate per 1,000 births Total deaths Rate per 1,000 births	290 45 23 53 313 45	221 36 14 46 235 37	253 49 37 149 290 54	336 55 22 105 358 56	240 40 21 114 261 42
Diarrhoea and enteritis— (under two years) Deaths	31 4.5	8 1.25	25 4.7	42 6.6	22 3.5
Maternal mortality. Deaths from puerperal sepsis Rate per 1,000 births Deaths from other puerperal causes Rate per 1,000 total births Total deaths from puerperal causes Rate per 1,000 total births	2 .28 8 1.13 10 1.41	2 .30 11 1.80 13 2.10	$\begin{array}{c} 2\\ .37\\ 5\\ 0.92\\ 7\\ 1.29 \end{array}$	5 76 13 1.97 18 2.73	.62 15 2.31 19 2.93

Table 2.—Supplied by the Registrar General.

Birth-rates, death-rates, infant mortality, maternal mortality and case-rates for certain infectious diseases in the year 1943.

(Provisional figures based on weekly and quarterly returns).

	Bristol	England and Wales	126 County Boroughs and great towns including London	Smaller towns (resident populations 25,000 to 50,000 at 1931 Census)	London Administra- tive County
1	1	Rates	per 1,000 pop	ulation	
Births: Live Still	18.57 0.56	16.5 0.51	18.6 0.63	19.4 0.61	15.8 0.45
DEATHS: All causes Typhoid and paratyphoid fevers	12.40 0.00	12.1 0.00	14.2 0.00	12.7 0.00	15.0 0.00
Smallpox Measles Scarlet fever Whooping cough Diphtheria Influenza	$0.02 \\ 0.00 \\ 0.00 \\ 0.01 \\ 0.29$	0.02 0.00 0.03 0.03 0.03	0.02 0.00 0.03 0.04 0.36	0.02 0.00 0.03 0.04 0.37	0.02 0.00 0.03 0.02 0.27
Notifications: Smallpox Scarlet fever Diptheria Enteric fever Erysipelas Pneumonia Measles Whooping cough	2.46 1.02 0.003 0.31 1.34 13.95 0.95	3.01 0.88 0.02 0.31 1.34 9.88 2.54	3.29 1.12 0.02 0.35 1.62 9.23 2.82	3.54 0.77 0.03 0.27 1.16 9.77 2.25	3.80 0.74 0.02 0.42 1.27 9.17 2.68
Cerebro-spinal meningitis	0.07	0.08	0.10	0.06	0.09
		Rate	es per 1,000 liv	e births.	·'
Deaths under 1 year of age Deaths from diarrhoea and enteritis under	45	49	58	46	58
2 years of age	4.5	5.3	7.9	4.4	10.4
Maternal Mortality: Puerperal sepsis Others Total	.29 1.14 1.45		Not	Available	
		Rate per 1,00	00 total births	(i.e. live and still).	1
MATERNAL MORTALITY: Puerperal sepsis Others	.29 1.13 1.41	2.29			
Notifications: Puerperal fever Puerperal pyrexia	9.44	11.68	15.11	9.26	{ 3.05 15.23

Table 3.

Compiled from figures supplied by Registrar General.

Total deaths by cause and age during the calendar year 1943—Bristol.

CAUSES OF DEATH.	1	All	1					
CAOSES OF BEATTI.	Sex	Ages	0-1	1-5	5—15	15-45	45-65	65+
ALL CAUSES	M. F.	2,327 2,271	170 143	27 22	29 18	214 239	690 465	1,197 1,384
1. Typhoid & paratyphoid fevers		1	-	=		1	-	-
2. Cerebro-spinal fever	M. F.	5 4	- 1	- 1	2	$\frac{\hat{2}}{1}$	1 -	- 1
3. Scarlet fever	M. F.	1	=	- 1	-	_	_	Î
4. Whooping cough	M. F.	1		1	=)	_	-	_
5. Diphtheria	M. F.	5	1	1 -	2	1		_
6. Tuberculosis of respiratory	М. Г.	145	1	-	= }	70	$\begin{array}{c} -68 \\ 12 \end{array}$	6
system 7. Other forms of Tuberculosis	M.	84 32	5	_	5	68	6	4 3
8. Syphilitic disease	F. M.	24 16	2 -	6 -	4	10 1	9	6
9. Influenza	F. M.	9 49	-		1	7	8 16	1 25
10. Measles	F. M.	60	1	1 2	1 -	6 -	10	41
11. Acute poliomyelitis & polio-	F. M.	1	3 -	1	1	_	-	_
encephalitis 12. Acute infectious encephalitis	F. M.	3	_	(]		ĩ	2	_
13. Cancer of buccal cavity and	F. M.	1 37	_	_	_	1 -	12	25
oesophagus 13. Cancer of uterus	F. F.	42	_		-	- 4	27	11
14. Cancer of stomach & duodenum	M. F.	70 74	-	l. =	_	6	20 29	44 40
15. Cancer of breast	M. F.	86	_	_	-	5	42	39
16. Cancer of all other sites	M. F.	240 193	_	2	2 3	15 16	99 75	122 98
17. Diabetes	M. F.	20 22	-	1 - 1	-	3 5	6 5	11 12
18. Intra-cranial vascular lesions	M. F.	185 289	-	-	_	1 2	46 49	138 238
19. Heart disease	M. F.	560 608	-1	=	-	14	147 85	399 492
20. Other diseases of circulatory	M.	54	1	_	-	31 5	18	30
system 21. Bronchitis	F. M.	52 167	1	_	=	$\frac{2}{1}$	10 50	40 115
22. Pneumonia	F. M.	136 150	30	6	1	6 14	13 48	116 51
23Other respiratory diseases	F. M.	118 29	$\begin{bmatrix} 24 \\ 3 \end{bmatrix}$	3 -	1 -	$\frac{8}{3}$	23 15	59 8
24. Ulceration of stomach and	F. M.	14 37	_	_		9	$\begin{vmatrix} 2\\19\end{vmatrix}$	8
duodenum 25. Diarrhoea (under 2 years of	F. M.	13	13	-		_	$\begin{bmatrix} 2 \\ - \end{bmatrix}$	6 -
age)	F. M.	18 8	17	1 -	1		4	3
27. Other digestive diseases	F. M.	$\begin{array}{c} 3 \\ 48 \end{array}$	$\frac{-}{2}$	$\frac{1}{2}$	_	1 4	1 14	$\frac{1}{26}$
28. Nephritis	F. M.	61 60	2	2 -	2 -	8 5	11 16	36 39
29. Puerperal & post-abortive	F.	50	-	-	1	11	16	22
sepsis 30. Other maternal causes	F. F.	2 8	_	_	-	2 7	1	
31. Premature birth	M. F.	50 36	50 36	_			= =	_
32. Congenital malformations, birth injury, infantile disease	M. F.	64 46	53 45	3	1	$\frac{2}{1}$	4	1
33. Suicide	M. F.	24 15	- 49	=	_	47	12	- 8 5 9 3
34. Road traffic accidents	M. F.	$\begin{bmatrix} 13 \\ 28 \\ 7 \end{bmatrix}$		3	6	5	5	9
35. Other violent causes	M.	51	- 1	$\frac{1}{3}$	2 2 1	12 3	15	19 29
36. All other causes	F. M.	39 174	10	5	5	16	38	100
	F.	155	10	3	3	23	34	82

Table 4.

Compiled from figures supplied by Registrar General.

Principle causes of death during calendar year 1943—Bristol.

Death Rate per 1,000	. Disease	Net deaths in 1943	% to total deaths
0.003	Typhoid and paratyphoid fevers	1	.02
0.024	Cerebro-spinal fever	9	.20
0.003	Scarlet fever	1	.02
0.003		1	.02
0.013	Diphtheria	5	.11
0.618	Tuberculosis of respiratory system	229	4.98
0.151	Other forms of tuberculosis	56	1.22
0.067	Syphilitic diseases	25	.54
0.293	Syphilitic diseases Influenza	109	2.37
0.016	Measles	6	.13
0.003	Acute poliomyelitis and polio-encephalitis	1	.02
0.011	Acute infectious encephalitis	4	.09
0.097	Cancer of buccal cavity and oesophagus	37	.80
0.113	Cancer of uterus	42	.91
0.388	Cancer of stomach and duodenum	144	3.13
0.231	Cancer of breast	86	1.87
1.167	Cancer of all other sites	433	9.42
0.113	Diabetes	42	.91
1.278		474	10.32
3.150	Heart disease	1,168	25.40
0.285	Other diseases of circulatory system	106	2.31
0.817	Bronchitis Pneumonia	303	6.60
$0.722 \\ 0.116$	Od	268	5.83 .94
$0.110 \\ 0.121$	YTTAirin of skales about and does domine	43 45	.98
0.121	2:	31	.90 .67
0.029		11	.24
0.029	Appendicitis Other digestive diseases	109	2.37
0.293	Nephritis	110	2.39
0.290		2	.04
0.003	041	8	.17
0.021	Premature birth	86	1.87
0.231	Congenital malformations, birth injury, infantile	00	1.01
0.296		110	2.39
0.290	Suicide	39	.85
0.103	Road traffic accidents	35	.76
0.034	Other violent causes	90	1.96
0.243	All other causes	329	7.18
12.400	ALL CAUSES	4,598	1.10
12,100	The citoble	1,000	

Table 5. Notifiable Diseases during 1943 (including Port cases). Local Figures.

				Nor	Notifications.	ons.			REMOVED	VED				DEATHS.	s.					Notified in	ui þa		
Notifiable				At ag	At ages—years:	ars:		-	HOSPITAL	TAL	s		At	At ages—years	years		Ì			eacn quarter	iarter.		Attack
Diseases.	At all ages.	Under 1	1 to 5	GI 01 G	15 to 25	25 to 45	99 01 97	sprewqu	o Z	%	All age	I 19bnU	201	3 01 2	GI 01 G	25 to 45	68 of 64	bns 60 sbrswqu	1st	2nd	3rd	4th	rate per 1,000.
Diphtheria	. 378	9	12	176	88	25	5	-	374	98.6	5	-	:	-	67	-		:	107	82	69	120	1.02
Erysipelas	116		-	7	2	23	22	22	37	31.8	1	:	:	:	:	•		-	36	26	21	33	0.31
Scarlet fever	. 913	es	240	579	51	34	9	:	645	9.02	-	:	:	-	:	:	:	:	245	197	197	274	2.46
Enteric fever	-	:	:	:	:	-	:	:	-	100.0	:	:	:	:	:	•	:	:	:	:	:	-	0.003
Para-typhoid	<u>ده</u>	:	:	63	:	:	1	:	1	33.3	-	:	:	- -	:			:	:	23	-	:	0.01
Cerebro-spinal meningitis	27	-	7	7	2	10	23	:	21	7.77	1-	:	:	-	- 67	- 7		:	13	~	61	20	0.02
Poliomyelitis		:	:	_	:	:	:	:	-	1	7	:	:	:	-		:	:	:	:	-		0.003
Pneumonia	. 496	37	82	74	36	92	102	20	257	51.2	279	62	ಣ	2	ಣ	4 18	3 73	111	137	282	55	226	1.34
Malaria	. 10	:	:	:	61	7	:	-	6	06	:	:	:	:	:	:	-:	:	ಣ	:	61	20	0.03
Dysentery	. 267	13	02 	77	24	61	25	25	159	59.5	က	:	:	-	:			:	16	136	105	10	0.72
Encephalitis lethargica	- 2	:	:	:	-	:		:	-	20	ಣ	:	:	:	:			:	:	:	-		0.005
Polio-encephalitis	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:		:	:	:	:	:	:	
Puerperal pyrexia	. 63	:	:	:	25	38	:	:	2	7.9	:	:	:	:	:	:	-	:	17	17	10	19	0.17
Ophthalmia neonatorum		~	:	:	:	:	:	:	:	:	:	:	:	:	:		:	:	ಣ	-	61	-	0.05
Measles	5,173	201	2,666	2,180	84	37	<u>ب</u>	:	221	4.2	00	ক	63		-		:	:	4,634	520	12	7	13.95
Whooping cough	. 354	38	223	08	6	4	:	:	41	11.5	-	:	:	-	:	:	:	:	72	86	114	0.2	0.95

Table 6.

Tuberculosis (including Port cases). Local Figures.

,												
	Death	7446	0.62		0.20		0.82	0.70	98.0	99.0	0.75	0.64
	22	-	12		က		15	£‡	19	6	30	11
	u u	3	œ	, ,	7		27	4	35	36	7	55
	rī.	2	9+		61		∞ +	53	43	55	19	- 6‡
	25	3	63		9		6+	42	99	17	72	90
	96	3	53		13		99	30	65	#	29	65
THS.	1 -06	3	21		œ		53	21	35	36	25	32
DEATHS.	15	2	15		1~		55	81	29	24	21	27
	10-	2	:		භ		က	9	44	ಣ	30	67
	ı,		:		7		t-	က	1	*	+	*
		1	1		.13		14	=	11	16	00	t-
	Under	1	61		00		10	9	- 2	61	က	1
	At all	200	231		† 2		305	264	310	273	313	270
	Case			, 1.65	800	çe.	1.98	1.62	1.63	1.37	1.35	1.59
		4th	139	13	17	17	186	154	156	108	124	153
	Quarters	3rd	141	က	16	•	160	128	121	120	134	133
	Öna	2nd	137	9	23	တ	169	152	167	179	155	170
		1st	133	26	36	. 7	202	153	144	157	154	210
	87	3	15	r.c	1	1	22	55	16	19	20	17
	M M		75	∞	:	အ	53	78	37	35	+3	41
	r.c		72	∞	9	1	87	76	11	22	99	69
CASES.	20		84	4	1~	1	96	103	91	85	22	95
C	96		130	11	19	1	161	113	113	113	105	131
	06		100	9	15	7	122	59	8	65	75	88
	N.		74	4	6	က	06	29	88	81	89	80
	-	2	16	1	13	1	31	8	21	20	33	15
	\.	•	12	:	12	70	- 53	10	30	7	43	68
	-	4	+	:	<u> </u>	**	16	12	33	9	33	31
	Under	,	1	1	61	9	10	4	7	ō	4	4
	At all Under	50 60	550	84	92	27	717	587	588	199	299	999
			sified	· ses	onary s tified	ses.	1943	1942	1941	1940	1939	1938
			Pulmonary tuberculosis Cases notified	Other cases	Non-pulmonary tuberculosis Cases notified	Other cases*	Total	Total				

* Cases coming to the knowledge of the M.O.H. otherwise than by notification.

INFANT MORTALITY. Table 7.

	1 .	1	_
	#tp	:::::::::::::::::::::::::::::::::::::::	22
is in ters	3rd	::::::::::::::::::::::::::::::::::::::	73
Deaths in Quarters	2nd	: : : : : : : : : : : : : : : : : : :	08
	1st	: * : 1 : 8 : 1 : 1 : 1 : 1 : 1 : 1 : 1 : 1	25
fal	_		317
Total	1943	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	<u></u>
	11	:::::::::::::::::::::::::::::::::::::::	က
	10	[m]::::::::::::::::::::::::::::::::::::	4
	6	: -::::::::::::::::::::::::::::::::::::	oo _
	œ	:::::::::::::::::::::::::::::::::::::::	+
_ s	(~	:::::::::::::::::::::::::::::::::::::::	7
Months	9	[] [] [] [] [] [] [] [] [] []	12
	5	:::::::::::::::::::::::::::::::::::::::	12
	4	::::::::::::::::::::::::::::::::::::::	12
	က	:::::::::::::::::::::::::::::::::::::::	11
	61	: - : - : : : : : : : : : : : : : : : :	20
	-	:	33
Total	month	::::::::::::::::::::::::::::::::::::::	191
	3-4	::::::::::::::::::::::::::::::::::::::	17
Weeks	2-3	::::::::::::::::::::::::::::::::::::::	28
	1-2	::::::::::::::::::::::::::::::::::::::	34
Under	week	::::::::::::::::::::::::::::::::::::::	55
Under	day	::::::::::::::::::::::::::::::::::::::	8
		f croup eningitis errulosis ous diseases n-T.B.) forms) enteritis erlaying formations h ty & marasmus	Totals
CAUSE OF DEATH		Chicken pox Measles Whooping cough Diphtheria and croup Erysipelas Tuberculous meningitis Abdominal tuberculosis Other tuberculous diseases Meningitis (Non-T.B.) Convulsions Preumonia (all forms) Hufluenza Bronchitis Suffocation, overlaying Injury at birth Atelectasis Congenital malformations Premature birth Atrophy, debility & marasm Other causes Found dead Sypbilis	
		OZZHET TOZOHHANOM TON TON	

Table 8.

MATERNAL MORTALITY. Uncorrected Local Figures.

		<u> </u>				
	Total		20	2.65	19	
	+0+		©1	I	วา	
PS.	35—			ı	က	
1943—AGE GROUPS.	30—	- -	7	I	9	
1943-	25—	-	တ	I	ಣ	
	20—		4	1	4	
	15—	-	1		<u> </u>	
1040	1942	니티 # 다	16	2.49	15	. কক্তক্ল
FIOT	1941	-	5	1.33	2	000-
900	0761	44 614 461 446 64	23	2.83	18	니 4 G 4 각
0001	1939	401 10 4 10 10	23	2.93	17	44040
000	1938		23	3.65	17	49485
LOCA	1937	44440004444	24	3.85	17	H 412 20 20 20 .
0001	1936	- 800	19	3.10	15	०० च च च च
	CAUSE OF DEATH	Obstructed labour Puerperal sepsis Septic abortion Placenta praevia Post-partum haemorrhage Obsteric shock Embolism Puerperal toxaemia Ruptured ectopic gestation Eclampsia Intestinal obstruction Chorea Dystocia Dystocia Pulmonary oedema	Total	Rate per 1,000 total births .	Deaths in institutions	Age groups— 15—20 20—25 36—35 36—35 40+

B.—DEPARTMENT OF PREVENTIVE MEDICINE.

Table 1-Pathological and Bacteriological Examinations.

1942							1943
	Swabs.						
85		• • •	• • •	• • •	• • •		166
9,173		• • •	• • •	• • •	• • •		10,348
17		··· .	•••	• • •	•••		7
2,015	Haemolytic streptoco		•••	•••	•••	•••	2,438
437	Other organisms	•••	•••	•••	•••	•••	275
	Sputa.						
1,680			• • •				2,277
339	O		•••	• • •	•••		191
$\frac{3}{2}$	Pneumococcal typing	5	• • •	• • •	•••	•••	1
7		• • •	•••	•••	•••	• • •	9
3	77 .	• • •	•••	•••	•••	• • •	4
3	vaccine	• • •	•••	•••	•••	•••	
	Blood.						
995		• • •	• • •	•••	• • •	•••	300
672		• • •	•••	•••	• • •	• • • •	745
131	Haemoglobin counts		•••	•••	•••	•••	1,176
76	Reticulocytes counts		•••	•••	•••	•••	77
$\begin{array}{c c} 12\\ 139 \end{array}$		• • •	•••	•••	•••	•••	10
16		• • •	•••	•••	•••	•••	291
16		• • •	•••	•••	•••	•••	15
33	701 1 1/	•••	•••	•••	•••	•••	15 32
$\frac{33}{62}$	77 1 1 1	• • •	•••	•••	•••	•••	46
18	C 1				•••		13
_	C 1.1 11. 11.	• • •		•••			36
430	T 1	• • •					581
130	0						95
85	A1 Alice a 41 c	•••	•••		***		82
_	TO		•••	•••			4
1	TT 1: - :14						2
28	Films for malaria						41
37	Paul bunnell		•••				43
4			• • •				8
7							4
6		• • •	•••	• • •	• • •	• • •	3
11		•••	•••	•••	• • •		13
1		• • •	• • •	• • •	•••	• • •	1
14		•••	•••	•••	•••	•••	15
3	Calcium	•••	•••	•••	•••	•••	4
$\frac{1}{3}$		•••	•••	•••	• • •	•••	1
5	•	•••	•••	•••	• • •	•••	16
9	Plasma proteins Leishman donavan b	odice	•••	•••	•••	•••	7
	Measles serum for inj		•••	•••	•••	•••	1 3
1	0 11			•••	•••	•••	3
5	TOI 1		•••	•••	•••	•••	
18	20.11 [1.1	• • •	•••	•••	•••	•••	_
j	TT -1 '1'	• • •					_
î	C.O.2 combining pow		•••	•••			
1	0 1 1 1 1		•••				_
1	Guinea pig inoculation		•••				_
1	0, 1,			•••			-
	Stomach Contents.						
1,602	70 / 1	•••	•••				1,753
	Faeces.						
224	C 1						227
	Thetania			•••	•••		463
393							703
$\begin{array}{c} 393 \\ 35 \end{array}$							144
	Food poisoning .				•••		144 3,114

Pathological and Bacteriological Examinations—continued.

Faeces	1942							1943
237								
8 Fat 18 - Bilirubin 5 1 Protozoa 16 - B.Aertrycke 3 4 Urrobilia 3 3 Bile - Urine. 1,540 1,379 Culture 1,483 73 Friedman 80 295 Urea concentration 376 27 T.B. 48 10 Inoculation for T.B. 30 16 Enteric 15 4 Amoebic dysentery 1 441 Ascorbic acid 161 6 Chlorides 2 90 Water clearance 3 2 Red blood cells 1 38 Sugar 43 - Sugar tolerance 3 3 Sugar tolerance 3 4 Brillia 1 6 Billirubin 3 26 Acetone 2 <td></td> <td></td> <td></td> <td></td> <td></td> <td>•••</td> <td></td> <td></td>						•••		
Bilirubin 16			•••	•••	•••	•••	•••	
1 Protozoa 16 - B. Aertrycke 3 4 Urobilia 3 3 Bile - Verine. 1,540 1,379 Culture 1,483 73 Friedman 80 295 Urea concentration 376 27 T.B. 48 10 Inocollation for T.B. 30 16 Enteric 15 4 Amoebic dysentery 1 41 Ascorbic acid 161 6 Chlorides 2 90 Water clearance 3 2 Red blood cells 1 3 1 1 38 Sugar 43 - Sugar tolerance 3 8 Urobilin 1 1 6 Bilirubin 32 26 Acetone 2 - Bence jones protein 3 - Lead pois	_			•••			•••	
− B. Aertrycke 3 4 Urobilia 3 3 Bile - 1,567 Routine 1,540 1,379 Culture 1,483 73 Friedman 80 295 Urea concentration 376 27 T.B. 48 10 Inoculation for T.B. 30 16 Enteric 15 4 Amoebic dysentery 1 441 Ascorbic acid 161 6 Chlorides 2 90 Water clearance 3 2 Red blood cells 1 3 Sugar 43 - Sugar tolerance 3 43 8 Urobilin 1 6 Billrubin 3 8 Urobilin 1 6 Billrubin 32 2 Actone 2 - Bence jones protein 3 - Bence jones protein 3 - Billazia 1		TO 4						
4								
Bile Urine 1,540 1,379 Culture 1,483 73 Friedman 80 295 Urea concentration 376 27 T.B. 48 10 Inoculation for T.B. 30 16 Enteric 15 4 Amoebic dysentery 1 441 Ascorbic acid 161 6 Chlorides 2 90 Water clearance 3 38 Sugar 38 Sugar 43 38 Sugar 43 38 Sugar 43 38 Sugar 43 38 Urbillin 31 6 Bilirubin 32 26 Acetone 2 2 2 3 4 Acetyl salicylic acid 3 1 1 1 1 1 1 1 1 1		** * ***						
1,567 Routine 1,540 1,379 Culture 1,483 73 Friedman 80 295 Urea concentration 376 27 T.B. 48 10 Inoculation for T.B. 30 16 Enteric 15 4 Amoebic dysentery 1 441 Ascorbic acid 161 6 Chlorides 2 90 Water clearance 3 2 Red blood cells 1 38 Sugar 43 - Sugar tolerance 3 8 Urobilin 1 6 Bilirubin 32 - Sugar tolerance 2 - Sugar tolerance 3 8 Urobilin 1 6 Bilirubin 32 - Bence jones protein 3 - Bence jones protein 3 - Lead poisoning 2 - Weil felix 1 - Acetyl salicylic acid 1 2 Diastase 3 3 Billazia 1 - Tryosine 1 4		D'I						-
1,567 Routine		Haina						
73 Friedman 376 27 T.B. 48 10 Inoculation for T.B. 30 16 Enteric 15 4 Amoebic dysentery 1 441 Ascorbic acid 161 6 Chlorides 2 90 Water clearance 3 2 Red blood cells 1 38 Sugar 43 - Sugar tolerance 3 8 Urobilin 1 6 Bilirubin 32 26 Acetone 2 - Bence jones protein 3 - Acetyl salicylic acid 1 - Acetyl salicylic acid 1 - Tryosine 1 4 Water dilution -	1,567						\	1,540
295 Urea concentration 376 27 T.B. 48 10 Inoculation for T.B. 30 16 Enteric 15 4 Amoebic dysentery 1 441 Ascorbic acid 161 6 Chlorides 2 90 Water clearance 3 2 Red blood cells 1 38 Sugar 43 - Sugar tolerance 3 8 Urobilin 1 6 Bilirubin 32 26 Acetone 2 - Bence jones protein 3 - Bilarcia 1 - Acetyl salicylic acid 1 - Tryosine 1 <td>1,379</td> <td>Culture</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1,483</td>	1,379	Culture						1,483
27	-				•••			
10			•••	•••	•••	• • •	•••	
16 Enteric 15 4 Amoebic dysentery 161 441 Ascorbic acid 161 6 Chlorides 2 90 Water clearance 3 2 Red blood cells 1 38 Sugar 43 - Sugar tolerance 3 8 Urobilin 1 6 Bilirubin 32 26 Acetone 2 - Bence jones protein 3 - Lead poisoning 2 - Lead poisoning 2 - Lead poisoning 2 - Weil felix 1 - Lead poisoning 2 - Weil felix 1 - Acetyl salicylic acid 1 - Acetyl salicylic acid 1 - Tryosine 1 - Tryosine 1 - Water dilution - <t< td=""><td></td><td></td><td></td><td>•••</td><td>•••</td><td>•••</td><td>•••</td><td></td></t<>				•••	•••	•••	•••	
44		T						
441 Ascorbic acid 161 6 Chlorides 2 90 Water clearance 3 2 Red blood cells 1 38 Sugar 43 - Sugar tolerance 3 8 Urobilin 1 6 Bilirubin 3 26 Acetone 2 - Bence jones protein 3 - Lead poisoning 2 - Weil felix 1 - Acetyl salicylic acid 1 - Acetyl salicylic acid 1 2 Diastase 3 3 Bilhazia 1 - Tryosine 1 4 Water dilution -1 135 Specific gravity -2 9 Acid -3 1 Solimatic gravity -4 9 Acid -5 1 Solimatic gravity -6 1 Albumen -7 2 Bilhazia -7								
6 Chlorides 2 90 Water clearance								•
90 Water clearance								
2 Red blood cells 1 38 Sugar 43 - Sugar tolerance 3 8 Urobilin 1 6 Bilirubin 32 26 Acetone 2 - Bence jones protein 3 - Lead poisoning 2 - Weil felix 1 - Acetyl salicylic acid 1 2 Diastase 3 - Bilhazia 1 - Tryosine 1 - Tyrosine 1 - Water dilution - 135 Specific gravity - 9 Acid - 7 Bile - 1 Sodium benzoate - - Pus - 1 Albumen - 1 Spirochaetes - 1 Spirochaetes - 1 Babortus - 107 11 183 Cerebro spinal fluids	-							
Sugar								
- Sugar tolerance 3 8 Urobilin 1 6 Bilirubin 32 26 Acetone 2 - Bence jones protein 3 - Lead poisoning 2 - Weil felix 1 - Acetyl salicylic acid 1 2 Diastase 3 - Bilhazia 1 - Tryosine 1 4 Water dilution - 135 Specific gravity - 9 Acid - 7 Bile - 1 Sodium benzoate - 3 Pus - 1 Sodium benzoate - 3 Pus - 1 Static albuminura - 1 Static albuminura - 2 Brace abortus - 3 Pus - 4 Histology								
8 Urobilin 1 6 Bilirubin 32 26 Acetone 2 - Bence jones protein 3 - Bence jones protein 3 - Bence jones protein 3 - Lead poisoning 2 - Weil felix 1 - Acetyl salicylic acid 1 2 Diastase 3 - Bilkazia 1 - Tryosine 1 4 Water dilution - - Tryosine 1 4 Water dilution - - Specific gravity - 9 Acid - 1 Specific gravity - 9 Acid - 1 Sodium benzoate - - 3 Pus 1 Albumen - - - - 1 Spirochaetes								
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26 Acetone 2 - Bence jones protein 3 - Lead poisoning 2 - Weil felix 1 - Acetyl salicylic acid 1 2 Diastase 3 - Bilhazia 1 - Tryosine 1 - Water dilution - 135 Specific gravity - 9 Acid - 7 Bile - 1 Sodium benzoate - 3 Pus - 1 Albumen - 1 Static albuminura - 1 Spirochaetes - 1 Br. abortus - 9 Hippuric acid - 107 111 Fluids. 183 Cerebro spinal fluids 198 141 Pleural and other fluids 138 4 Animal tissues 28 <								-
− Bence jones protein 3 − Lead poisoning 2 − Weil felix 1 − Acetyl salicylic acid 1 2 Diastase 3 − Bilhazia 1 − Tryosine 1 4 Water dilution − 135 Specific gravity − 9 Acid − 7 Bile − 1 Sodium benzoate − 3 Pus − 1 Sodium benzoate − 3 Pus − 1 Albumen − 1 Static albuminura − 2 Br. abortus − 3 Br. abortus − 4 Histology − 4 Pleural and other fluids 138 4 Pleural and other fluids 138 4 Post Mortems 92 4								
- Lead poisoning 2 - Weil felix 1 - Acetyl salicylic acid 1 2 Diastase 3 - Bilhazia 1 - Tryosine 1 4 Water dilution - 135 Specific gravity - 9 Acid - 7 Bile - 1 Sodium benzoate - 3 Pus - 1 Sodium benzoate - 3 Pus - 1 Static albuminura - 1 Static albuminura - 1 Spirochaetes - 1 Br. abortus - 9 Hippuric acid - 107 Pus 107 111 Fluids. 183 Cerebro spinal fluids 198 141 Pleural and other fluids 138 44								3
- Weil felix 1 - Acetyl salicylic acid 1 2 Diastase 3 - Billhazia 1 - Tryosine 1 4 Water dilution - 135 Specific gravity - 9 Acid - 7 Bile - 1 Sodium benzoate - 3 Pus - 1 Albumen - 2 Pus - 1 Spirochaetes - 1 Br. abortus - 9 Hippuric acid - 107 11 Fluids 198 141 Pleural and other fluids 138 Histology 1 4 Animal tissues 296 5 Animal tissues 28 99 Post Mortems 92 Waters 302 Bacterial counts 137	_							
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Tryosine Water dilution Specific gravity Specific gravity Specific gravity Specific gravity Specific gravity Specific gravity Spile Sodium benzoate Spile Sodium benzoate Spile Static albuminura Spirochaetes Spiroch		Bilhazia						
135	-	Tryosine						1
9 Acid — 7 Bile — 1 Sodium benzoate — 3 Pus — 1 Albumen — 1 Static albuminura — 1 Spirochaetes — 1 Br. abortus — 9 Hippuric acid — Pus. — 107 — 111 Fluids 198 141 Pleural and other fluids 138 Histology 41 Human tissues 296 6 Animal tissues 28 99 Post Mortems 92 Waters 92 Waters Bacterial counts 137		Water dilution						-
7 Bile — 1 Sodium benzoate — 3 Pus — 1 Albumen — 1 Static albuminura — 1 Spirochaetes — 1 Br. abortus — 9 Hippuric acid — Pus. — 107 — Pus. 111 Fluids. — Cerebro spir.al fluids — 141 Pleural and other fluids 138 Histology. — 441 Human tissues — 6 Animal tissues — 99 Post Mortems. 92 Waters. — 302 Bacterial counts 137					′		•••	_
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Br. abortus				•••	•••	•••	***	_
9 Hippuric acid	_			*	•••	•••		_
Pus. 111 Fluids. 198 141 Pleural and other fluids 198 138 Histology. 241 Human tissues 286 Animal tissues 28 28 28 Post Mortems. 92 Waters. 302 Bacterial counts 37						•••		-
107 .	9	Hippuric acid	•••	•••	•••	•••	•••	
Fluids Cerebro spiral fluids 198 141 Pleural and other fluids 138	10=	Pus.					1	444
183 Cerebro spinal fluids	107	•••	•••	•••	•••	•••	•••	111
141 Pleural and other fluids 138 Histology. 296 296 6 Animal tissues 28 99 Post Mortems. 92 Waters. 137								
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241 Human tissues 296 6 Animal tissues 28 99 Post Mortems 92 Waters Bacterial counts <t< td=""><td>141</td><td>Pleural and other fl</td><td>uids</td><td>•••</td><td></td><td>•••</td><td>•••</td><td>138</td></t<>	141	Pleural and other fl	uids	•••		•••	•••	138
241 Human tissues 296 6 Animal tissues 28 99 Post Mortems 92 Waters Bacterial counts <t< td=""><td></td><td>Histology.</td><td></td><td></td><td></td><td></td><td>7</td><td></td></t<>		Histology.					7	
6 Animal tissues	241							296
99								
Waters. 302 Bacterial counts 137	An						1	00
302 Bacterial counts 137	99	Post Mortems.	•••	•••	•••		• • • •	92
		Waters.						4.0=
- Differential counts 14	0.4	**						137
	302			•••	•••	• • •		

Pathological and Bacteriological Examinations—continued.

1942							1943
814	Ruts.						799
4	Mice .				•••	(
	Milks.						
766	Tuberculosis .			•••	• • •		803
361 448	Accredited . Pasteurised ba	oct		•••	•••		218 277
279	Pasteurised ch			•••		•••	241
297	Phosphatase .						192
52 1	Pasteurising p		···	•••	•••	•••	28
î		··· ···					_
71	Churn rinses .			•••	• • •	•••	22
$\begin{array}{c} 30 \\ 23 \end{array}$	Milk bottle rin Milk for organ			•••	•••	•••	79 -
3	Milk straws .			•••	•••		_
4,147	Venereal Disease Blood for wass		reaction	n			6,115
3,930	,, ,, kahr					1	5,814
	C.S. Fluid for	wassein	iann rea	ction			7
1,565 7,420	Complement for Films for gond			_		•••	2,737
288	Cultures for going			•••	•••		10,719 887
4	C.S.Fluids for	cells			• • •	•••	12
5 25		mical	•••		•••	•••	11 52
	,, ,, lan Special comple			tests		•••	5
- 1	Fluid for spire	chetes		•••			8
1	Urine for gone	ococci	• •••	•••	•••	•••	-
80	Foodstuffs.			•••			82
	Specific Investig						
_	***			•••	•••	••• أ	10 6
_	Whooping cou	 gh plate		•••	•••	- ::: 1	19
-	Fluids for inoc	culation					2
1	Fluids from b. Breast milk	. pestis	•••	•••	• • •	••• /	1 6
_	Gastric conter	 its					1
2	Antral washin	gs		•••	•••		6
1 -	Hand washing Sternal puncti	gs		•••	•••	• • • •	1
3	Vomit			•••		}	5
1	Hair for ringw	orm					5 5
	Scales for ring Scale of shin	worm		•••	• • •	•••	3 1
-	T3' '1	••• ••			• • •		1
-	Wart .				•••		1
$\frac{1}{2}$	Swab for trich Shaving crean			•••	•••	•••	1 8
1	Canine teech						-
4	Duodenal juic	е				•••	-
1	Bacillus leprae Leaflets			•••	•••	•••	-
ì	Pink substanc			•••	•••	1	_
5	Smears for trie	chonoma	as			•••	-
$\frac{4}{1}$	Tatooing mate Tape worm he			•••		•••	***
	- Tape worm ne	ead				•••	
44,408				Totals		•••	59,567

C.—CLINICS.

Table 1-Maternity and Child Welfare.

1		
1942		1943
	(a) Notifications.—	
6,844	Live Births —	7,277
296	Still Births	265
74	Confinements at Home—by Doctor	69
2,185	by Midwife	
4,881	Confinements at Institutions	5,386
	(b) Forms of Maternity Assistance Granted-	
2,140	Midwives Fees —	2,036
4	Consultant Obstetricians	2
243	Dentures	301
7	Spectacles	3
1	(c) Midwives Claims for Compensation—	-
386	(d) Fees claimed by Medical Practitioners—	390
	(e) Municipal Midwives cases completed—	
1,318	(a) as Midwife	1,452
362	(b) as Maternity Nurse	382
20 511	Nursing Visits	20,578
38,511	Other Visits '	9,574
	(f) Attendances at Clinics—	
	(i) Municipal Ante-natal	
2,135	Verrier Road	2,210
3,281	Bedminster	2,819
1,551	Brislington	1,542
1,915	Knowle West	1,966
3,853	North Bristol	3,574
1,293	Portway	1,377
3,912	Central —	4,397
2,790	South Bristol	3,256
4,770	Southmead	4,173
3,638	Speedwell	3,806
		00.400
29,138		29,120
24.5	Average per session	25.4
4,707	New Patients	4,753
8,014	Midwives anti-natal sessions	8,354
	(ii) Post Natal Clinics—	
604	Central	661
(Bedminster	523
2,062	Speedwell	753
	Southmead —	693
	Portway —	67
	Knowle	8
2,666		2,705
12.7	Average per session	12.6
	Average per session	
1,347	New Patients	1,298

Maternity and Child Welfare—continued.

1942		1943
4,800	(iii) Consultative Ante-Natal Clinics	4,921
	(iv) Municipal Infant Welfare Centres—	
- 1 - 1	Mothers—	
5,171		4,663
6,582		7,966
6,038		6,688
3,480	V acrela West	3,547
4,736 3,546	Cauth Duistal Datha	5,357
4,441	Dadminator	3,506 3,990
	Bedminster	3,990
34,264		35,717
31.	Average attendance per session	37.2
	Children under 1 year—	
3.575	Company	3,714
5,146	Cmadwall	6,561
4,762	Cauthmand	5,418
2,383	Donton	2,685
3,337		3,952
3,053		3,009
3,221	Bedminster	3,051
5,477		28,390
23.7	Average attendance per session	29.6
	Children between 1 and 5 years—	
1,899	Control	1,165
2,053	Speedwall	1,681
1,717	Carthyroad	1,704
1,357	Portway	1,150
1,592		1,552
933		604
1,298	Bedminster	1,199
.0,849		9,055
11.1	Average attendance per session	9,4
	New Patients—	
2,395	Children under 1 year	2,503
274	Children between 1 and 5 years	229
00.144	(v) Voluntary Infant Welfare Centres—(13)	05.00-
23,144		25,925
$\begin{array}{c c} 31.3 \\ 4.379 \end{array}$		35.2
20.3	A seasons adding damage man acciden	19,164
9,240	Children between 1 and 5 man	26, 8,946
13.	A	40.4
10.	New Patients—	12,1
1,184	Children under large	1,986
210	Children between 1 and 5 weeks	267
	(vii) Birth Control—	
72	Attendances	

Maternity and Child Welfare-continued.

1942		1943
	(viii) Minor Ailments—	
3,222	Inspection	3,198
11,666	Treatment	11,251
1,802	NT The Alice Ac	1,980
1,002		1,500
	Ante and Post Natal Exercises	224
	(xi) Other Special Clinics—	
342	Attendances	105
81	New Patients	11
	(g) Health Visitor's' Visits—	
6,143	Notified Births—Primary	6,579
10,504	under 1 year	14,349
24,987	l to 5 years	26,661
687	D - C	516
75	O-bab alasia Managanana	25
	Summer Diarrhoea	1
293	Ante-Natal	587
114	Neo-Natal deaths	88
3,899	Other Special Visits	6,038
12,939	Blank Visits	14,254
5,822	Municipal Clinics	6,513
517	Schools for mothers	501
39	Tuberculosis	1,934
44	Blank Visits	776
1,070	Sessions at Nursery Classes	905
14 631 183 44	(h) Visits by Inspector of Midwives and Nursing Homes— Mental Deficiency Midwives Acts Blank Visits Nursing Homes	790 235 62
28	,, ,, (special)	31
	(i) C.M.B. Forms—	
1,281	1 2 2 2 2 2 2 2 2	1,410
1,281	73 T3 41	1,410
	C Callbiath	37
41		II
11	D. Laying out the Dead	26
47	E. Liability of Infection	60
72	F. Artificial Feeding	70
	(j) Infant Life Protection—	
1,142	No. of Visits	1,020
	Children under supervision at end of period	70
5	Removed from Register at age limit	8
42	Transferred to relatives	24
16	Legally adopted	12
5	Removed for other reasons	8
48	Persons registered as receiving children	38
4.0		

Table 2-Sunlight Treatment.

1942			1942					1943	
Central Clinic	South- mead (out patients)	Total		Central Clinic	South- mead (out patients)	Total •			
73 1069 473 4836 513 5982	100 1484 80 901	73 1069 573 6320 593 6883	Chest:— Patients attendances. School:— Patients attendances M. & C. W Patients attendances Others:— incl. short wave etc Patients attendances attendances	83 1441 516 5497 679 8133	84 2396 48 1758	83 1441 600 7893 727 9891			

Table 3—Eye Clinics.

19	42		19	43
New Patients	Attendances		New Patients	Attendances
1404 89 49	5225 415 56	School Children Infants Adults	1233 76 54	5093 245 68
1542	5696		1363	5406

Table 4-Orthopaedic Department.

1942		Tucotmont		1943		
Patients	Attendances	Treatment;—		Patients	Attendances	
24 311	490 5843	M. & C. W. School		43 328	867 5768	
335	6,333	Totals		371	6,635	
1942				1943		
Patients	Attendances	Inspections :—		Patients	Attendances	
111 753 115	194 1299 162	M. & C. W. School Chest		195 860 123	288 1355 212	
979	1,655	Totals	***	1,178	1,855	

Table 5-Dental Department.

	1942			1943			
Schools	Expectant Mothers & Nursing Mothers	Infants	Service .	Schools	Expectant Mothers & Nursing Mothers	Infants	
31646	1143	590	Inspected	27621	1132	594	
20411	1143	590	Requiring	17790	1131	590	
		2=0	Treatment		3		
17282	1182	673	Treated	16141	1181	629	
26534	2936	891	Attendances	25127	3075	883	
			Fillings :			•	
10147	701	-	Permanent Teeth	10015	635	_	
1128	-	205	Temporary ,,	664	-	214	
			Extractions :				
4857	5785		Permanent Teeth	4339	4881	_	
20296	- 1	1370	Temporary ,,	18745	- 1	970	
11088	1435	600	Anesthetic Gas	10643	1248	427	
			Other Operations				
5383	758		Permanent Teeth	4028	690	_	
582		137	Temporary ,,	479	_	161	

Table 6-Ear, Nose and Throat Department.

1	1942				943
Patients	Attendances	Inspections		Patients	Attendances
99 1,014 75	128 1,835 124	M. & C.W. School Chest		43 631 69	48 1,528 119
1,188	2,087	Totals		743	1,695
43 304	359 5,627	Treatment M. & C.W. School	:::	22 203	231 4,980
347	5,986	Totals		225	5,211

Table 7-X-Ray Department.

	1942				1943	
Film	Screen	Total		Film	Screen	Total
3,012 392 493 367 39	663	3,675 392 493 367 39	Central Health Clinic— Chest , G.P's Schools M. & C. W Others	4,508 742 484 680 95	1,098	5,606 742 484 680
4,303 786	663	4,966	Southmead Hospital— Out-Patients	6,509 2,427	1,098 102	7,607 2,529
5,089	743	5,832	Totals	8,936	1,200	10,136

	Mayor's Ba 1942	Paddock ths 1943	Central Cli 1942	Health nic 1943	Hos	nmead pital 1943	Avoni 1942	mouth	To	tals 1943
Children Infants	4,606 1,044	3,164 864	2,634 817	2,221 752	699 206	947 237	_	233 41	7,939 2,067	6,565 1,894
Females Males	2,008 2,301	1,980 2,345	2,083	1,938	319	569		236 150	4,410 2,301	4,723 2,495
tal Attendances	9,959	8,353	5,534	4,911	1,224	1,753	_	660	16717	15677
Patients-— Children Infants tults—	2,238 548	1,609 494	1,359 407	1,109 403	330 62	370 96	_	109 21	3,927 1,017	3,197 1,014
Females Males	1,105 1,313	1,093 996	1,138	1,034	162 —	250 —	_	146 93	2,405 1,313	2,523 1,089
Total New Patients	5,204	4,192	2,904	2,546	554	716	_	369	8,662	7,823

Included in "Total Attendances."

Table 9—Dispensary.

	nic d Clinics (11) itutions (17) ecial Nursery lasses (61) es (30) trict Medical Officers
Vit. A & D Emu Vit. A & D Caps Whooping Cough	res made Gallons 3,000 ent made lbs. 2,000 on gallons 228 es caps. 138,000 7accine (20 cc vials) 27 on. (5 cc vials) 3,500 on. lbs. 1,000 gallons 30 ool lbs. 1,113
	cwts. 30 gallons 380 tabs. 40,000

Table 10-Immunisations, Vaccinations, etc.

1942		1943
3,896 6,377 — — — — 10,273	(i) Diphtheria.—Number of immunisations completed at Schools 10608 and Clinics Nurseries 3153, General Practitioners 946, during the year. Full course—Ages 0—5 years	4,854 6,430 3,423 14,707
	Estimated percentage of child population immunised Ages 0—5 , 5—15 ,,	50% 70%
47 92	(ii) Typhoid Fever— Number of persons inoculated injections given	10 19
2,244	The number of vaccination certificates received during the year	1,793 (Provisiona

Table 11-Chest Clinic.

1942						1943
1,571	New Patients—adults		•••			2,196
600	children			•••		848
4,290	Attendances—adults					4,856
1,990	children	•••	•••			2,430
3,669	Re-examinations—adults					3,801
1,046	Children Home Visits—	•••	•••			976
236	Doctors Nurses					398
1,834	Nurses '	•••	•••			1,965
329	Injections					572
663	Artificial pneumothorax refills					1,203
1,069	Ultra-violet light cases					1,441
162	Orthopaedic surgeon					212
124	E.N.T. Surgeon	•••	•••	•••	•••	119
4,067	X-rays	• • •	• • •			6,348
520	Sputum examinations	• • •	• • •	•••	• • • •	1,192
37	Personal consultations	•••		•••	•••	40
	Admissions to Institutions :					
693	Adults	•••	•••	• • •	•••	767
163	Children	•••	•••	•••	•••	261
	Cases on Register at end of year					
2,931	Pulmonary Non Pulmonary	•••	•••	• • •		3,154
1,030	Non Pulmonary	• • •	• • •	• • •		1.053

Table 12—Tuberculosis Welfare Dept. (Commenced 1st June, 1943).

Allowances in cash.	1943
Total applications granted :	
(a) Maintenance	214
(b) Discretionary (also incd. in (a)	46
(c) Special Payments (13) ,,	24
Patients in receipt of allowances at end of year	150
Allowances in kind. Free Milk grants—new cases , , , , —renewals Total patients in receipt of milk grant at end of year Allowances in kind—per Voluntary Care Committee Rehabilitation.	28 57 31 28
Patients introduced to Training Centre	_
Successfully introduced to employment	
() D- (()	_
(b) Full-time	

1942 Guardian House	Clinics	Guardian House	1943 Avon- mouth	South- mead
1,881 512 18 39 679 651	New Patients Syphilis ,, (congenital, includ above) Soft Chancre Gonorrhoea Non-Venereal	1,783 411 18 8 439 925	1,055 197 1 7 284 567	192 55 12
2,713 42,027	Total Patients Total Attendances	1,801 48,418	1,055 4,818	224 2,119
17,968 24,059	Individual attention by Medical Officer Investigation, Dressings, etc.	30,573 17,845 802	3,242 1,576	2,119
1,421 720 9 638 54	Under treatment end of year Syphilis Soft Chancre Gonorrhoea Non-Venereal	440 3 337 22	66 31 2 15 18	122 40 — 32 50
132 4,121	Inpatients Inpatient days	87 2,543	=	

V.D. Diagnostic Clinic.			1943
Total Attendances	•••	•••	234
New Patients	•••	•••	234

Table 14-V.D. Welfare Dept. (from 1st Nov. 1943).

•	M.	F.
Number of cases on Welfare Officers' Register	899	650
Number of new cases added during month	238	138
Primary cases:—(a) Interviewed	52	50
(b) First visits	16	16
(c) Repeat visits	9	5
(d) Examined after persuasion	8	10
Old cases:— (a) Interviewed	4	10
(b) First visits	1	7
(c) Repeat Visits	-	~
(d) Examined after persuasion	1	5
Follow up after failure to complete treatment		
(a) Visits	90	52
(b) Re-commenced treatment after		
persuasion	63	43
Attendances at Clinics	31	34
Number of consultations with Voluntary bodies	16	17
Number of visits for other specified purposes (for patients)	20	18
Total visits for all purposes	140	112
Regulation 33B (included in above figures)		
(1) Total number for whom Form 1 was received	12	22
Form 1 sent to M.O.H. other districts	15	3
(2) Number in (1) persuaded to be examined before		
named on second Form 1		
(a) Contacts found	13	12
(b) Contacts examined	9	9
(3) Number in (1) for whom 2 or more Forms 1 were		
received	1	3
(4) Number of those in (3) who were		
(a) found	1	2
(b) examined after persuasion	-	-
(c) served with Form 2	-	1
(d) examined after service of Form 2	-	1
(e) prosecuted	-	-
Rehabilitation.		
(a) Successfully introduced to		
employment	-	-
(b) Successfully introduced to club or		
other suitable organisation	6	5

D.—HOSPITALS, INSTITUTIONS AND NURSERIES.

Table 1—Hospitals.

Table 1—	-Hospitals.				•			
Beds Occup'd 31:12:42		Beds Provided	No. Admitt.	Births (Live)	No. Disch.	No. of deaths	No. of beds occupied 31:12:43	Waiting List
303 152 28	Southmead— General Maternity T.B	385 152 32	3,747 3,176 124	2,453	3,097 5,471 89	} 739* 35	372 150 28	122 —
-	Cedar Hall—	20	321	295	311		20	_
$\begin{array}{c} 263 \\ 20 \end{array}$	Snowdon Rd.— General T.B	264 25	387 91		209 46	198 42	243 23	_
162 209	Ham Green— T.B Fevers, etc	160 340	364 2,489		289 2,503	70 56	168 139	10
34 14	Charterhouse T.B Fevers, etc	50 62	74 395		73 397	6	29 12	<u>-</u>
89	Frenchay San.—	106	244		233	W. Co. Action	100	22
57	Winsley San.—	58	87		83	3	58	9
9	Other T.B. Insts.		39		31	. 8	9	_
	Totals	1,654	11,538	2,748	12,832	1,157	1,351	163

These figures include treatment of service sick and service casualties including civilian war casualties, details of which may not be indicated.

Table 2—Ambulances.

18	042		1943	
No. of Ambulances	No. of Removals		No. of Ambulances	No. of Removals
2	2,318 1,964	Infectious Diseases Ambulances Southmead General Ambulances	2	3,826 Used only for stand by for night duty

Table 3-Nurseries.

No. of Places occupied 31-12-42		Places Provided 31-12-43	No. Admitt.	No. Disch.	No. of deaths	No. of Places occupied 21-12-43	
302	(i) Residential No. (13)	291	457	409	1	266	35
376	(ii) Day (18)	705	961	740		531	230
256	(iii) Residential (adm. by Education Com- mittee) 2-5 yrs. (7)	249	165	218	-	203	15

Table 4-Daily Guardian Scheme. (Scheme inaugurated January, 1942).

1942		1943	
194 144 223 184	No. of Guardians registered ,, with babies ,, Babies registered ,, Babies placed with Guardians	290 382	

^{*}Including 9 Maternal deaths (4 Bristol 5 Outside City cases)

E.—SANITATION, HOUSING, SHOPS ACTS etc.

Table 1-Sanitary Inspectors.

1942					1943
	Sanitary Inspectors—				
21,674	Visits				21,164
303	Notices				334
288	Notices complied with	•••			247
	Work Done—				
31	New drains laid				41
376	Tests made	•••			367
152	Drains repaired	•••			191
364	Choked drains cleared	•••	•••		314
38	Flushing appliances introduced	•••	•••		45
86	New pans fitted				75
8	Additional W.C's				2
50	Other W.C. 1epairs, etc	•••			81
	Casanasla shallahad	•••			
	337-41' ' (-11 1				1
	XX7-111-2-7-4	•••	•••		
	wells closed	•••	•••	•••	
	W. I. D D				
100	Work Done on Dwelling Houses— Roofs repaired				156
239	Other new work	•••			375
68	Premises cleansed		•••		75
8	House treated for dampness	•••	•••		23
ì	Lighting improvements		•••		3
6	Ventilation improvements			• • •	1
34	NT: 1 C1	•••	•••		7
4	Washing convenience installed	•••	•••	•••	
î	T 1	•••	•••	•••	
7		•••	•••	•••	2
6		•••	•••	•••	
8	Heating apparatus	• • •	•••	•••	5
	Lavatory basins	•••	• • •	•••	_
1	Meal rooms	• • •	•••	• • •	1
î	Other work in shops	• • •	•••	•••	
	Overcrowding abated	•••	•••	•••	40
116	Underground rooms closed	•••	• • • •	• • •	18
10	Other nuisances abated		•••	•••	203
	Aged and infirm persons remove	ed	• • •	•••	1
transmit	Smoke observations	•••	•••	• • •	3
	Smoke infringements	•••	•••	•••	_
	Housing Acts.				
	Houses repaired	• • •	•••	• • •	
	Public Health Acts.				
1,850	Houses inspected	•••			2,637
4,435	Inspections made	•••	•••	• • • •	2,952
	Posterio incide	•••			-,001

Table 2-Dairies, Milkshops, etc.

1942		1943
	Registered at end of period—	
239	Dairies (City)	. 212
	,, (O/Čity retailing within City)	440
903	Milkshops	. 731
56	Cowsheds	
	Personal registrations	. 1,138
	Licences under Milk (Special Designations) Order, 1936.	
	Tuberculin Tested—	
2	To produce	. 2
_	To produce and bottle	.
8	To bottle and sell	. 9
21	To sell only	4 9
4	Supplementary	
•	Accredited	
7	To produce	. 8
1	To produce and bottle	. 8 . 1
2	. To bottle	
9	To sell	
4	Supplementary	. 3
	Licences under Milk (Special Designations) Order, 1936.	
	Pasteurised—	
11	To produce and sell	. 12
53	To sell	. 55
2	Supplementary	. 2

1942			19	043
No. taken	No. Not complying		No. taken	No. Not complying
174 827 125 119 226	59 	Samples taken— Pasteurisation test Tubercule Examinati'n Tuberculin Tested Pasteurised Accredited Test samples at Institutions	195 827 49 58 137 206	15 16 14 26 41

Table 2—Dairies, Milkshops, etc.—continued.

1942		1943
	Other samples—	
1,074	Food and Drugs	990
2	Ice Cream	_
183	Others	136
	Visits—	6
969	Dairies	1,105
129	Milkshops	167
241	Cowsheds and Farms	318
136	Corporation Institutions	142
102	Schools	202
_	Food Poisoning	-
_	Food Premises	
─	Premises damaged by enemy action	-
3,620	Others	3,927
	Premises—	
3	Cleansed	7
	Other defects remedied	8
	Plants installed—(sterilizing)	2
	Drainage—	
2	New Drains	2
	Repairs and clearance	2
	Water Closets	
2	Other repairs and Cleansing	_2
	Notices—Verbal and written	58
	,, Complied with	65

Table 3-Inspection of Meat and other Foods.

1942		1943
	Visits	
1,340	Meat Markets	933
635	Shops	806
5	Cattle Markets and Railway Sidings	. 12
_	Fish curing premises	
24	Sausage making premises	32
_	Cold stores	
	Connection with food poisoning	
	Street traders	. —
40	Institutions	63
1,268	Slaughterhouses	1,301
_	Slaughterhouses cleansed—	
—	Slaughterhouses rebuilt, repaired or altered	_
_	Sanitary defects, etc., remedied— ·	

Ĩ	19	42				1943	
	City	Abattoir				City	Abattoir
	6,098 3,811 35,563 12,983 5,422	10,745 3,903 55,067 1,575	Animals examin Beasts Calves Sheep Pigs Pigs (New	•••	 	8,113 6,566 35,218 17,840 469	10,826 3,651 40,916 771
	159 5 77 20	194 8 46 30	Carcases destroy Beasts Calves Sheep Pigs	ved— 	 	196 3 45 20	236 3 15 8

Table 3—Inspection of Meat, etc.—continued.

1942	·	1943
Tonş		Tons
109 95 92	Meat destroyed from— Slaughterhouses and Shops Cold Stores Abattoir Fish, Poultry, Vegetables, etc	134 104 56

Table 4—Disinfections, Drain Tests, etc.

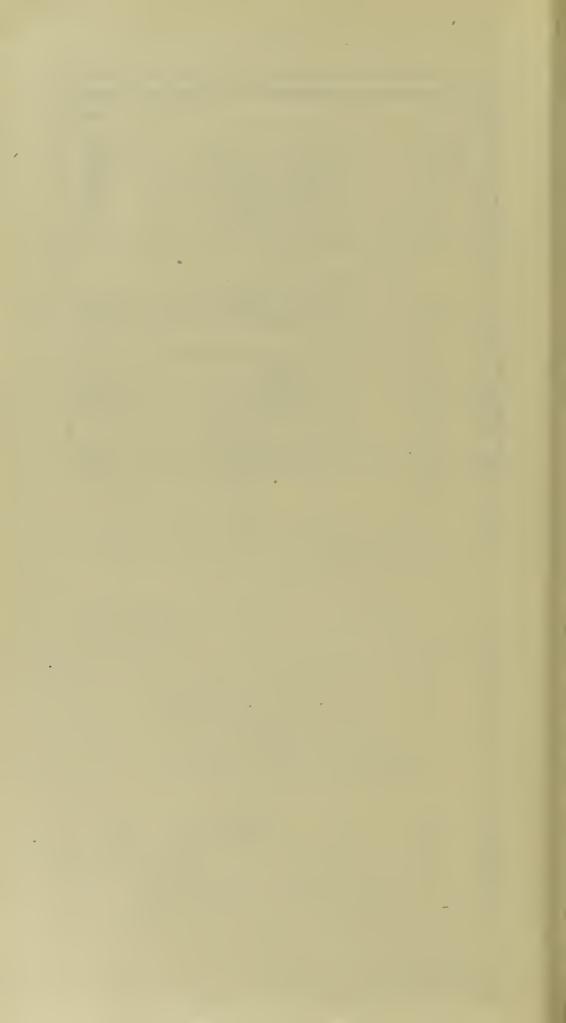
1942						1943
7		No. of vans	•••			, 8
10,318		No. of disinfe	ctions			12,197
212,914		Articles disin	fected			226,757
759		,, destr	oyed			1,087
59		Fumigations	by sulph	ur		65
313		Sprays	,			408
		Baths—				
218	FI	Vermin				115
210	1	Other				223
		Drain Tests-			- 4	
· 4		Water				15
245		Smoke		`		198 _
25		Colour				14
. 58		Chemical	•••		•••	38

Table 5-Rat Repression. City.

1942		1943
1,049	No. of complaints received	1,299
97	No action required Infestation cleared—	191
793	(a) by Corporation services	998
53	(b) by occupiers	12
0.0	No and an article accession (Company ata)	^^
92	No. under routine service (Contracts)	62
92 14	No. complaints outstanding at end of year	36
		_
14	No. complaints outstanding at end of year	36
14	No. complaints outstanding at end of year No. of Notices served:—	1,299
14	No. complaints outstanding at end of year No. of Notices served :— (a) Informal	36
14 1,049 292	No. complaints outstanding at end of year No. of Notices served:— (a) Informal	1,299
$ \begin{array}{c} 14 \\ \hline 1,049 \\ \hline \\ 292 \\ 2 \end{array} $	No. complaints outstanding at end of year No. of Notices served :— (a) Informal (b) Formal	1,229 1,229

Table 6-Shops Acts and Young Persons.

1942		1943
2,272 1,147 638 42 123 6 -	(a) Shops Acts— No. of shops visited Revisits Infringements Assistants' facilities improved Verbal warnings Warning letters Prosecutions Convictions	4,141 856 526 36 69
96 39	(b) { Visits to Cinemas	44 14
104 58 32 17	(c) Young Persons (Employment Act) 1938— No. of visits ,, revisits infringements verbal warnings	10 13 9 9
78	(d) Unsatisfactory condition report to C.S.I	33



LECTURES BY MEDICAL OFFICER OF HEALTH.

(Reported by the Bristol Mercury and Daily Post in 1880).

LECTURE A

Mr. D. Davies, M.R.C.S., the Medical Officer of Health of the Bristol Sanitary Authority, is delivering a course of lectures on "Hygiene" to the students of the Bristol Medical School at the institution, in Tyndall's-park. The first address was given on February 9th, and its subject was "Human Habitations." Mr. Davies said the subject he had to treat of was as yet in a very chaotic state. Assertions and opinions they had in abundance, but comparatively little real knowledge. Much that had been taught was no better than superstition, and much that fairly claimed their respect could as yet be considered as only guesses at truth. It had been alleged, and he believed with some degree of truth, that the sanitary action of the last few years had not produced a tangihle result in the absolute returns of mortality. When, however, they considered the increase of the population and the crowding of that population in large towns of limited areas, the increased struggle for existence, and the consequent over tension of the nerve and muscle, he thought the fact that they had not retrograded was a sufficient proof of the good result of hygienic measures. thought the fact that they had not retrograded was a sufficient proof of the good result of hygienic measures. Passing on to consider the question of what human habitations ought to be, Mr. Davies observed that the first point to consider in a house was the site on which it stood. It was not only important, but absolutely hought the tact that they had not retrograded was a sulficient proof of the good result of hygienic measures. Passing on to consider the question of what human habitations ought to be, Mr. Davies observed that the first point to consider in a house was the site on which the house stood should he dry. Observation, with the assistance of such authorities as Dr. Hunter and Dr. Buchanan, had led him to the conclusion that the prevalence of phthisis was greatly due to a damp subsoil, damp floors, and overcrowded cottages, and he might here mention that Dr. Buchanan had conclusively shown that phthisis had decreased in Bristol since the formation of their new sewers and drains which had drained the subsoil. The next important point in the site of a house was proper distance from ground emitting malarial influences. As to the nature of the ground on which the house was to stand, the hest was a solid dry rock, next to this, a dry sandy soil of any formation, and the worst of all impermeable clay, which retained all the fluids falling on it. In or near large cities the question often arose as to the safety of using town ashes mixed with a considerable amount of vegetable, and frequently some animal matter as a site. The public opinion of the safety of such foundations on the score of health was on the whole, as he took it, unfavourable, but after diligently searching for evidence on this point he had not been able to find a particle of reliable evidence that such foundations for houses were unhealthy after they had thoroughly settled—say for two years. He would here seriously warn them not to be carried away by the popular views regarding the supposed haneful effects of decomposing animal and vegetable matter. Having secured a site perfectly dry and with a low water level, and not exposed to malaria of any kind, they should secure that the site should be so exposed to currents of air on all sides as to be constantly surrounded by fresh unexbausted air, and it should be so situated as to secure the greatest possible amou

LECTURE B

Yesterday afternoon, Mr. D. Davies, delivered the second lecture of the course, his topic heing Sanitary Arrangements of Towns and Villages. He observed that wherever man settled down in a fixed habitation he accumulated around him a quantity of excrementitious matter, and more especially when he settled down in considerable numbers in cities, towns, or villages. One of the most difficult problems in hygiene was to discover the best means of getting rid of the effete matter of various kinds that man necessarily produced. From Moses down to Rawlinson and Hawkesley and various other modern engineers the problem had been discussed and settled in a variety of ways, but he must caudidly tell his hearers that he did not know of one that was satisfactory on all points, and not one that had not some concomitant evils. He thought it was a wise course to take a short review of the various methods recommended and adopted at various times and He premised his remarks with a few words on human excreta as affecting human health. He had no reason to consider that when they were the produce of a healthy person and free from the germs of disease that they could, in their natural state, prove injurious to the health of anyone. He could quote instance upon instance where water containing human sewage bad been drunk for months and years without any detriment to the health of the drinker. In such cases the condition of the water had been discovered only detriment to the health of the drinker. In such cases the condition of the water had been discovered only by the accidental introduction with the sewage of the germs of zymotic disease, and then the drinkers bad fallen victims to disease in large numbers. He did not wisb to be misunderstood on this point. He simply said the pure sewage per se was nasty, but innocuous; that when free from the germs of disease it could not give rise de novo to any one of the principal zymotics as was generally supposed. At the same time he must emphatically state that the presence of a trace of human sewage with either water or anything else used for food was contingently most dangerous and to he avoided, hecause that trace of sewage might be the link of connexion between the alimentary canal of the drinker and the alimentary canals of some persons suffering from typhoid fever or some other zymotic. With regard to human sewage, he further helieved that where accumulated and undergoing fermentation, although it could not give rise to any of the principal zymotics, it might give rise to a septic influence which might favour the condition called hospitalism. Having made these preliminary remarks, he proceeded to discuss the removal of sewage, and observed that the different modes might be divided into three classes. 1st. The dry method, including earth closets, pan closets, the Goux system, Stanford's system, and Lierner's system. 2nd. The water carriage system, divided into irrigation, intermittent filtration, and purification by precipitation—a by lime; b by sulphate of alumina, c by the A B C system. 3rd. Running it into the sea or into a tidal river. The dry method was the one ordered for the Hebrews by their great legislator. This was simply perfect, but in modern towns and villages not practicable. The earth closets invented by the Rev. H. Moule were an excellent modification of the Mosaic injunction, and well adapted to many of our modern conditions. He considered these closets admirably adapted for country houses and institu on a supply of disciplined officers, upon a sufficient supply of virgin earth, and upon ground to utilise the compound. They were also adapted for country cottages with gardens, and in such cases he did not see why waste should be allowed or expenses incurred in making drains. But for crowded towns, with mixed, undisciplined populations, they were totally inapplicable. The next dry method was the pan closet, tub or pail closet, by which the excreta were removed daily. All in operation, but he was not predisposed in favour of it, and he could not well conceive how it could be worked in Bristol. The Goux system was a modification of it, and was in full operation in Halifax. It was expensive and required constant supervision, and the manure sold for little more than the cost of carriage. After glancing at Lierner's system, which had been described by Mr. Rawlinson, C.E., as a "costly toy," the lecturer went on to notice the various water carriage systems, and remarked that one of the most promising of these was that of irrigation. The sewage was conducted by severs or drain pipes on the land to he irrigated, and then distributed over it, as at Westbury-on-Trym; or where the level did not allow of that it was collected in a cess-pool, thence pumped by a force-pump into a high tank, and thence distributed over the land, as at the Bristol Workhouse. The warm supporters of this system claimed for it that it utilised all the sewage, that it was free from danger, that it created no nuisance, and that it was remunerative. Each and all of these sanguine views had been traversed by other observers. The system had as many restrictions as to render it inapplicable but to few places, but he was of opinion that in some localities it might be applied with benefit and safety. He should most dread its effects on the wells of the surrounding country. The next mode of dealing with sewage, "the intermittent downward filtration," was working well at Merthyr, and was spoken highly of by Dr. Dyke, the very able medical officer of that to the fishes. In country districts, with large villages with houses without gardens—a condition which ought not to exist—it was often difficult to dispose of the sewage. There were no sewers and no out-fall. In such cases cesspits were allowed, but these, owing to their improper construction and had management, sooner or later hecame great nuisances. He had frequently known them, and some not very far from Bristol, consist of a simple pit or well, made in porous soil in immediate contiguity to the well of water for domestic use, which of course became contaminated. The amount of sewage actually swallowed by burman heings in this manner was simply incredible except to eye-witnesses. To such an extent was the water supply contaminated by the cesspools in the country around Bristol that a glass of water safe to drink was a rare article when drawn from a well. In South Gloucestershire be would suffer for a prolonged period from thirst before drinking a tumbler of well water, except he knew the source whence it came. With regard to the methods of removing sewage, he gave the preference when practicable to large sewers and water carriage discharging into a tidal river. Whenever water carriage was adopted and sewers had been constructed, care must be taken that there was no accumulation of gas with high pressure in them. Mr. Davies next dealt with the ventilation of sewers, and said when the main sewers were large, the gradient good, and the flushing efficient, as at Clifton, allowing of no accumulation in the main sewers, no ventilation was necessary. When, however, sewers were small, laid on a very small gradient, and imperfectly flushed, ventilation became absolutely necessary. Various schennes had been proposed, but he preferred the plan of Mr. Rawlinson, who took the traps out of the street gratings. Though he was a convert to this new mode of ventilation as the hest, he would on no account follow it over zealously. He should have no hesitation in throwing open all the street gratings on the low levels in Bristo to the fishes. In country districts, with large villages with houses without gardens—a condition which ought not to exist—it was often difficult to dispose of the sewage. There were no sewers and no out-fall. In such There were no sewers and no out-fall.

LECTURE C

Yesterday afternoon Mr. D. Davies, M.R.C.S., Medical Officer of Health to the Bristol Sanitary Authority, delivered, at the Medical School, Tyndall's-park, the third lecture of his course on "Hygiene," his subject being Nuisances. He observed the common meaning of the word nuisance was clear, viz., anything that is vexatious, annoying, or injurious to a person. The Public Health Act, 1875, used the words "a nuisance or injurious to health," He referred to the recent legal definitions of nuisances, and remarked that as the law stood now there was power enough under the definitions given—except for one or two saving qualifications only exceptionably applicable—to sweep away everything from our midst except roses and lilies, and coupling this with some recent decisions in the Court of Chancery in private actions for injunctions against alleged unisances from manufactories, he was of opinion that by a consistent and logical application of recent decisions to manufactories creating unpleasant odours, but few of them could escape being stopped; and this busy, thriving England of ours could he reduced to a wilderness, with grass growing over our streets. But there was no fear of such a catastrophe. Proceeding to consider what were the unisances which came under the action of Sanitary Authorities under the Public Health Act, he said dogs might howl or hark, cocks night crow, and cats with their noises might make night lideous, but Sanitary Authorities could not interfere with them. Stables near a house were certainly a unisance, but it was considered by some legal authorities that if they were kept clean, well drained, and well ventilated, and the manure removed at frequent intervals—say twice a weck—they could not be interfered with or compulsorily removed. As to whether they were in a medical sense injurious to health, he was most strongly of opinion they were not. Pigs were charged with the causation of all sorts of fever and other diseases in man, but honestly and frankly Pigs were charged with the causation of all sorts of fever and other diseases in man, but honestly and frankly expressing his opinion, founded on observation, he was not aware of any of the diseases of man being caused by the proximity of pigs, or that any of the pigs' own diseases were communicable to man, except those of

a parasitic character. Nevertheless the pig was not a pleasant neighbour, and ought to be excluded from close proximity to houses on the score of general disagreeableness. The same remarks would apply to milch cows and cow-houses as to horses and stables. He should be glad to see by-laws regarding the keeping of horses, pigs, and cattle made and enforced in the city—such by-laws would much simplify sanitary duties, cows and cow-houses as to horses and stables. He should be glart to see by-raws regarding the keeping of horses, pigs, and cattle made and enforced in the city—such by-laws would much simplify sanitary duties, and prove useful guides to the public. Frequent complaints were made to officers of health regarding the keeping of rabbits, pigeons, ducks, guinea pigs, and other pets. In such cases he recommended the writing of a civil answer to the complainant, giving good advice in a kindly manner to the offender, and making matters generally smooth. He next directed attention to offensive trades, and observed one of the offensive trades which had given the authorities the most trouble in the city was bone boiling, or grease boiling. When badly conducted in a crowded street by a manufacturer of limited means it was frequently intolerable and must be ahated. There were three ways of ahating the nuisance; 1st, by conducting the process under a dome or air-tight roof, and conducting the fumes into a very high chinney and dispersing them into the atmosphere at a great height; 2nd, by conducting the fumes, when the boiling was done by steam pipes, into an underground cistern of water to be there condensed; 3rd, by conducting the fumes into the fireplace and there hurning them, but that could only be done when the melting was done by direct fire and not by steam. The manufacture of manure when carried on by men of limited means was frequently a great nuisance, hut there was one comfort, such men did not continue it long. The manufacture should be conducted under domes and the fumes conducted into a long shaft. The trade of "sausage strings and cat-gut maker" was a most offensive one, be knew. By "sausage strings" was meant the cases in which the meat was packed. The intestines of sheep or other animals were steeped in water until a high degree of putrefaction had taken place and a stink had been produced which, like Egyptian darkness, might he felt. The sausage cases were then cleaned and sold to the sausage makers, but he cases were then cleaned and sold to the sausage makers, but he would not proceed further with the mysteries of the trade. He was not aware of more than two such manufacturers in Bristol. The only way to abate the nuisance arising from this trade was to exclude it from any inhabited locality. The tanning trade, when of the ordinary kind, and conducted in a proper manner, was not a public nuisance, but formerly a large number of dried Indian hides called kips, were brought to Bristol and their preparation caused a great stencb. He was of opinion the trade of preparing these kips ought not to he carried on in the midst of a crowded community, but if allowed by the authorities it ought to be carried on under a dome and a high shaft. The manufactory should he surrounded with high walls, as the effluvia were enough to produce nausea and vomiting in persons not accustomed to them. He would call attention to the remarkable fact that the men engaged in scraping these bides—although breathing the foulest air that extreme put refaction could produce womiting in persons not accustomed to them. He would call attention to the remarkable fact that the men engaged in scraping these bides—although hreathing the foulest air that extreme putrefaction could produce —were remarkably healthy and free from all zymotic diseases. The salted hides imported from South America and other parts were very disagreeable in odour, but he knew of no specific disease produced by them. In conclusion, he said Sanitary Authorities in dealing with these nuisances required much judgment and discretion. On the one hand they had to do their duty to the public, and to conduce as much as the means at their command would allow them towards public health and comfort; and on the other hand not to unnecessarily oppress the manufacturer or needlessly thwart the mainspring of our prosperity.

LECTURE D

Yesterday afternoon, the fourth lecture of the course on Hygiene was delivered by Mr. D. Davies, Medical Officer of Health to the Urhan Sanitary Authority, at the Medical School, Tyndall's-park.

Mr. Davies chose for his topic Disinfectants, and observed that on no subject had the human mind shown a more exuberant fancy or displayed more inventive genius than on this. A vast number of articles had heen ranked as disinfectants and preventives of disease, ranging from harmless charms carried by the superstitious to fire and the stronger chemicals. The theory of disinfectants was founded on a helief in the seeds of diseases or infections consisting of organic matter capable of reproduction, and the power of fire and chemicals to destroy the composition, and therefore the reproductive power of the disinfection. The best of all disinfectants was fire, and the surest mode of disinfection was the destruction of the infected article by hurning it. But as that process was, owing to the expense it incurred, not often practicable, a modification of it was most generally used. It had been found that the exposure of an infected article to a heat of from 220 deg. to 250 deg. F. destroyed infection. This was done by the Sanitary Authority in Bristol hy means of a large iron hox or chest heated hy gas-jets underneath. The articles were put into the box when heated to 250 deg. and kept there for one or two hours. In the case of clothes and bedding care must be taken to see that every part of the interior was exposed to that beat. Articles of clothing could not be exposed to a heat ahove 250 deg. without a risk of destroying them, and that heat was positively efficient as a disinfectant. It was probable that a heat considerably below this would answer the purpose, but there was no reason why we should restrict ourselves to it. He alluded to experiments made by the late Dr. W. Budd, which proved that a beat helow 212 deg. sufficed to destroy the vitality of the virus of vaccine matter, and observed that we also knew that a heat o charged with the gas any number of infected articles might be spread, but in all these cases assurances should be made doubly sure by having all washable articles afterwards washed with a disinfectant or exposed to a heat of 250 deg. Other gases were largely used for disinfection, especially chlorinc. For his own part he had no great confidence in that gas, having seen many cases which suggested its failure as a disinfectant. Carbolic acid was, in bis opinion, "facile princeps of all antiseptics." Its great power in rendering inert the germs of hacteria and other organisms in the atmosphere, and thus preventing septicoemia and pyoemia in surgical wards was, as he took it, heyond all reasonable doubt. He at one time thought it had a similar power over the seeds of the principal zymotics, but his confidence in that respect was rudely shaken. An experiment he made showed that camphor vapour was a stronger disinfectant than carbolic acid vapour. It was also found by the officers engaged in stamping out the rinderpest that carbolic acid, unless used in very large proportions, was not reliable as a disinfectant for that virulent zynotic. Having admitted all this, he nevertheless considered carbolic acid as an antiseptic a most valuable agent, having power over the morbid matter, whatever it be, that gave rise to infections, erysipelas, lospitalism, pyoemia, septicoemia, and fermentations of all kinds, but feeble, except in large proportions, against the seeds of the principal zymotics. To prevent the condition called hospitalism, they kept the air of the Sanitary Authority hospitals always permeated with carbolic acid vapour. They used it in the form of a powder, called Calvert's powder, very extensively in Bristol for the purification of privies, communicating drains and other places. For

preventing septic fermentation and the consequent discharging of gas in sewage matter, he did not know preventing septic fermentation and the consequent discharging of gas in sewage matter, he did not know of anything equal to it. Bisulphite of line in solution was extensively used by brewers for the purification of foul beer barrels. It rendered them sweet and pure, and it most thoroughly destroyed the germs of every kind of fermentation or mould that might have attacked them. On exposure to the air, it threw out sulphurous acid gas most profusely. It bleached linen immersed in it, but if free from sulphuric acid did not destroy the texture. At the Sanitary Anthority Hospitals all infected articles were soaked in a mixture of one pint to five gallons of water, and after remaining in it a few hours were washed with carbolic acid soap, dried, and then passed through the dry heat apparatus. They had never heard of any disease having been produced from such clothing. Permanganate of potash was extensively used as a disinfectant. The late Dr. Letheby considered its powers as a disinfectant extremely feeble and untrustworthy. That might be true of it when used to disinfect clothes saturated with infectious discharges. Nevertheless, he (Mr. Davies) had reason to believe that when spread about a sick room in open dishes and sheets soaked in it were hung across the doorways of sick rooms, it had the effect of tangibly purifying the surrounding atmosphere, and across the doorways of sick rooms, it had the effect of tangibly purifying the surrounding atmosphere, and it was undoubtedly useful and convenient to add in small proportions to water in the washhand basin for the it was undoubtedly useful and convenient to add in small proportions to water in the washhand basin for the medical attendant to wash his hands in after handling an infectious patient. It was generally used in a solution under the name of Condy's fluid. Its disinfecting qualities depended on its oxidising properties. It was a disinfectant which we could not part with, owing to its being non-poisonous and safe to handle. For his own part, he could go through life satisfied with the above list of disinfectants, but there were many besides which he knew were excellent. It seemed that the essential oils of many plants bad strong disinfecting power, as he had mentioned with regard to camphor. One of the best of these "terebene," was a preparation from the pine, invented by Dr. Bond, of Gloucester. It was very pleasant and not poisonous, and might be used a the same manner as Condy's fluid. Dr. Bond had also invented an excellent soap with terebene in it. He (the lecturer) most strongly recommended this soap as by far the most successful in removing any disagreeable smell from the hands. Then they had the oil of thymol with preparations of it. Sanitas was also good, being an oxidising agent containing the peroxide of hydrogen. Chloralum, or chloride of aluminium, was likewise an excellent disinfectant, and non-poisonous. It was a good deodorent, and most useful for sinks, drains, and cesspools, as well as in the sick-room. He could multiply the list, but for no purpose. The fact was that any chemical of strong affinities, if put in the right place at the right time and in a proper manner, was a disinfectant. In Bristol they used the common sulpbate of iron for disinfecting drains and sewers on a large scale. He did not think that a disagreeable smell to a disinfectant was under some circumstances an objection, but rather a recommendation. Such a disinfectant was a rough and ready means of testing the communication of a well of drinking water with the drains. They also found strong-smelling disinfectants useful in the They also found strong-smelling disinfectants useful in the poorest districts of the city when infectious cases had not been removed. The disagreeable odour was a warning of danger, and often succeeded in warding off had not been removed. The disagreeable odour was a warning of danger, and often succeeded in warding off idle gossips. He would caution his bearers not to apply disinfectants as mere charms. They were obemicals, and they must be applied within the rules of their chemical affinities to produce the desired effect. Let him likewise warn them against considering disinfectants as a substitute for fresh air—the oxygen of the atmosphere was, after all the chief disinfectant, especially when we could apply it in the form of ozone. Ventilation was the best means of clearing a room of a foul smell, but there were times when this could not be applied except slowly. In sucb cases be had found a few drops of Lin Iodi on a piece of blotting paper exposed for evaporation in the room the most efficient. In conclusion, he remarked however useful disinfectants might be they were not on any account to be depended upon without isolation of the infected patient, and under no circumstances should their use be pleaded as a bar to isolation.

LECTURE E

Mr. D. Davies, the Medical Officer of Health to the Bristol Sanitary Authority, lectured on Friday afternoon at the Medical School, Tyndall's Park on Zymotic Diseases. He observed that the application of preventive measures against disease of this class formed the principal and most important, and he need not add, the most anxious duties of Health Officers. The returns of mortality showed that nearly one-fourth of the total mortality of our race was due to these diseases. Success on combating them would depend much on their having more or less clear views on their nature and origin. Since Sanitary Science had come so much to the fore, various, and as be helieved, erroneous views bad been spread abroad by well meaning sanitarians, which had frequently diverted the attentions of Sanitary Authorities from the real lair of the enemy. Sanitary Authorities and their officers had too frequently been paying attention to the enemy's camp followers, whilst the enemy in force had been ravaging the citadel. It would be utterly beyond the scope of his course of lectures to give a detailed theory of the nature of zymotic disease, but he considered it his duty to dwell cursorily on some popular errors on the subject; errors which, although they occasionally and dogs, instead of looking upon them as conditions, like a dirty and clean condition, and just as much under our own control, or rather as the reactions of a kindly nature against the conditions in which we have placed ourselves. I was brought up both by scientific men and ignorant women, distinctly to believe that small-pox for instance, was a thing of which there was once a first specimen in the world, which went on propagating itself in a perpetual chain of descent, just as much as there was a first dog or a first pair of dogs, and that small-pox would not begin itself any more than a new dog would begin without there having been a parent dog." She then gathered strength, and with a brave heart, such as a lady only possessed, made the following astounding statement:—"Since then I have seen with my eyes and smelt with my nose, small-pox growing up in first specimens, either in close rooms or in overcrowded wards, where it could not by any possibility have been caught but must have begun. Nay, more, I have seen diseases begin, grow up, and pass into one another. Now dogs do not pass into cats. I have seen, for instance, with a little over-crowding, continued fever grow up, and with a little more Typhoid fever, and with a little more, typhus, and all in the same ward or hut." That was very plain speaking. No other person had, in such a concise, graphic and unmistakeable manner, converged into a form the views of the modern Pythogenic school of Sanitarians. Possibly no single lady in all England had done more for hunanity than the writer of the above, but he doubted and doubted very seriously whether her advocacy of such opinions as these had not done more to retard Hygiene than their undoubted goodness and philanthropy had done good. The propagation of error by such a high and trusted authority was a very serious and deplorable matter. This error, when an epidemic threatened a district, too frequently diverted attention from the true contagion which was insidiously spreading itself, and sanitary eifor localities—and probably most in the East or Central Asia—had in all likelihood much to do with them. The primary condition from which they first sprang might have been transient, or in the same defined local the control of the primary condition from which they first sprang might have been transient, or in the same defined local with the primary condition of the primary conditions and the primary condition of the primary conditions and the primary control of the primary conditions and the primary condition of the primary conditions and call the primary condition of the primary conditions and the primary condition of the primary conditions in dealing with matters affecting the human health. When the rinderpest—a zwmich desirate in matter and origin appeared. At thousand and one hypotheses—a come of which would have disgraced the mantes of a lamatic asylum—a primary conditions of the public press, but the Leckaleure, whe can decisive in matter into the limbo of forgetfulness. Isolation, the pole are, disinfectuarts, and deep burial did the rest, and the lends of England were saved. Nevertheless the same haseless, evil-pro buring hypotheses, like badly ladd ghosts, continually reappeared regarding human diseases. Another error which was held by eminent suntarians was the belief that the very fact of a patient sulfering from a zymotic disease was a positive proof that the patient was loaded with some evil produced and accumulated in him by the sanitary conditions, and control of a zymotic disease, say scarlet fever, according to this view, there must be three factors—call them A, B and C. "A" represented the patient's constitution," B" the evil accumulated in it by the sanitary conditions, and "C" the germ of the disease. Without these three conditions, zymotic disease, say scarlet fever, according to this view, there must be three factors—call them A, B and C. "A" represented the patient's constitution," B" the evil accumulated in it by the sanitary conditions, and "C" the germ of the disease. Without these three c syphilitic eruptions, and he earnestly cautioned his auditors not to mistake the haemorrhagic form of small-pox for maculated typhus—a mistake not unfrequent. He next indicated the steps Health Officers should take to prevent the extension of small-pox when a genuine case was reported to them. If the patient was a pauper, his removal should be immediately required into the Union Hospital for infectious diseases, and every machinery of command should be set in motion for that purpose. If the person was not destitute but was without proper means of isolation in his own house, he should be removed to the Sanitary Authority Hospital for that purpose. The case having been removed, the Health Officer should set to work to blot out every germ of the disease that had heen left hehind it. Every article of clothing, and other things which the patient had handled, should be collected and put in the room which he had occupied; a quantity of sulphur, more or less according to the size of the apartment, ignited; and the room kept closed for twelve hours. If there were any articles in the apartment not worth further attention they should be burnt, and the infected clothing, including the bedding, taken in a proper conveyance to a hot air apparatus, and exposed to a heat of from 220 degrees Fah. to 250 degrees Fah. The things might then be safely washed, or otherwise dealt with by anyone. The room in which the patient had been should be cleaned in the ordinary way by white liming and re-papering. The duty of the Health Officer would not yet be complete. He should ascertain, hy examination, if possible, if there were any unvaccinated persons in the infected houses or among the social connexions of the patient. Having discovered any such unfortunate persons, the machinery of the Vaccination Act should be put in force at once. By a judicious course of action the officer would hardly ever fail in giving all the safety of vaccination and in stamping out the disease. Should the disease threaten to assume the dimensions of an epidemi

over the parents or guardians of all children under 15 years old; the large employers of labour should be induced to have their employees examined, and to offer them vaccination or re-vaccination gratis; and similar influence might be brought to bear on public schools through the School Boards or schoolmasters. In this way they would soon break the neck of a small-pox epidemic. In conclusion, Mr. Davies offered suggestions as to the hest means of dealing with persons, who, from carelessness or apathy, or from superstition or religious conviction had not been vaccinated.

LECTURE F

On Monday afternoon, Mr. D. Davies gave another of his course of lectures at the Bristol Medical School, Tyndall's park. His subject was *The Principal Zymotics*, and his remarks had especial reference to typhus and enteric (typhoid) fevers. He observed that for two centuries these two diseases were considered as one and the same, and he thought the credit of first striking out the right path was due to their continental brethren. Since 1836 different English physicians had established the distinction between the two diseases, and the point was definitely settled and accepted about 1850. He took the two together for the sake of contrast. From a sanitary point of view they signified very different issues, and required very different measures for their suppression. In typhus in the great majority of the cases one was able to trace the source of infection; in very many cases of typhoid fever they failed to do so. Typhus had no connexion with bad drains, sewer gas, or contaminated water. Typhoid almost always had connexion with one or other of these—especially with water containing sewage with fever germs in it. The more he saw of this disease the more —especially with water containing sewage with fever gernis in it. The more he saw of this disease the more the belief grew on him that almost every class of enteric fever was due to the seeds of the disease taken into the stomach. Typhus was extremely infectious; the infection was conveyed by the atmosphere, and it had a long striking distance. On the other hand, the gaseous emanations from a typhoid patient, if diluted with air, were apparently innocuous. Its striking distance was so short that it had not been ascertained. Patients suffering from it might safely be admitted into the wards of a well-ventilated hospital, whilst the admission of one patient suffering from typhus would be a source of the greatest possible danger to the other patients. Enteric fever infection might be conveyed by clothes soiled with discharges from the patient to a washerwoman who handled and stood over them when washed. But this amounted to almost direct direct in the patient of the patient of the patient to a washerwoman who handled and stood over them when washed. But this amounted to almost direct direct in the patient of the patient of the patient of the patient of the patient to a washerwoman who handled and stood over them when washed. admission of one patient suffering from typhus would be a source of the greatest possible danger to the other patients. Enteric fever infection might be conveyed by clothes soiled with discharges from the patient to a washerwoman who handled and stood over them when washed. But this amounted to almost direct contagion or swallowing of the germs. He was not aware of the intermediate communication of this disease hy clothes merely exposed in the sick room or by the person of an attendant. On the other hand, he had known typhus again and again spread by an article of clothing. He gave instances of this, and said these facts, with their present knowledge of the distinction between typhus and enteric fever threw a new light on the past, rendered the epidemics of the middle ages and subsequent times more clear to them, and pointed out a more definite line of action in the future. Proceeding to give his hearers some practical directions, the lecturer said if they had a case of typhoid to deal with they should have all the drains and surroundings of the house carefully examined, and have the drinking water analysed, and if they were found wrong have the evils remedied. They should see that the gas traps of the house were good, and above all things see that all the ejecta from the patient were disinfected, as Dr. Budd recommended, on their very issue from the hody. Let all the clothing be disinfected before it was washed, or the washerwoman would be infected. If the patient's friends were clean and decent people, he did not consider it necessary to remove the patient to the hospital more than for any other disease of a general character. In a clean house, with good water, good drains, and good ventilation, if the disease spread it was due to some error of the doctor or neglect of the attendants. He had good reason for believing that convalescents, for a period of two or three months after convalescence, discharged infectious germs from the intestinal canal, and thus infected drains and wells. He helieved enteric disease spread amongst us that it was often impossible to trace them to their immediate source. It was a complaint which, like phthisis, preferentially affected certain families. Turning to typhus, he observed that supposing they had a case in their district, they should by all means get the patient removed into a sanitary hospital. Isolation in the house was, as in the case of small-pox, insufficient. A case of typhus on the ground floor of a large house, inhabited by several families, very soon would affect every floor in the house, and almost every individual. Whilst a typhus patient was in a private house inhabited by the working classes his friends and the gossips of the locality were sure to visit bim and spread the disease. Let him assure his hearers that the mass of the people did not believe in infection, hut the prevailing creed was a blind fatalism, frequently expressed to him by the expression, "Oh; it is all the Lord's will." This might be theologically correct, but in hygiene it worked very badly. Having got the patient removed they should set to work to hlot out every trace of the disease. If they left a single point unattended to they would have more cases. In no disease was a medical officer of health of so much service to the public as in preventing epidemics of this complaint. If this fever was allowed by neglect to spread, as was the case in Bristol in 1864, or if the medical disease was a medical officer of health of so much service to the public as in preventing epidenics of this complaint. If this fever was allowed by neglect to spread, as was the case in Bristol in 1864, or if the medical officer exercised himself in studying the vagaries of the popular Pythogenia theory, it soon reached tremendous dimensions. On February 3rd, 1865, the first day of his appointment, he (Mr. Davies) visited 150 typhus patients in St. Philip's, and there were many others scattered about the city. Of that epidemic about 150 died. Since then we had had the disease frequently introduced into the city from Ireland, Glasgow, New York, and other places, but we had always heen able to stamp it out hy prompt and decisive measures.

The cases of the disease that would give them the most trouble were light attacks, where the patient suffered only from a slight malaise, and would not be removed into hospital or go to hed. These light cases were quite as infectious as the others, and much more troublesome. The disease, unlike typhoid which affected chiefly children and adolescents—affected all ages, but preferentially attacked the bread winner, prevailed the most among the poor, but was most fatal among the rich. He considered its infection as virulent as that of scarlet fever, but more manageable to a health officer, because it did not choose its victims almost exclusively among young children, who presented great obstacles to removal to a public hospital. If they removed cases of typhus into a hospital they must take great care not to put them in the same ward as patients suffering from typhoid fever or any other disease, as the latter on recovering almost invariably developed typhus if exposed to its infection—the one fever was no protection against the other. The period of incubation of typhus fever was somewbat uncertain, but he put the shortest period at eight days; he had no doubt the period might be prolonged, like that of enteric fever, but he should consider a person safe in 15 or 16 days after exposure to infection. His advice to persons exposed to infection was "Live as you bave done during the last six months, and don't disturb the system by any sudden change." Patients who recovered from typhus did so, as a rule, very rapidly, and, with the usual proper precautions, might frequently be re-admitted to their friends in about five weeks from the commencement of the attack. The only disease which typhus could justly be mistaken for was enteric fever, and said that its striking distance was very short—not more than three or four feet. It could, therefore, with extreme care, be isolated in a separate room in a house without danger to persons in the other rooms. The infection at short distance was very virulent, and would retain its vi

LECTURE G

Mr. D. Davies in his lecture on Friday aftermon at the Brissol Medical School, Tyndall's park, dealt with Astatic Chelera, and observed that those who had not witnessed an epidemic of this disease in a large town, could not form the sighthest idea of its ravages, the rapidity of its action, and the general panic it implied—the living were then truly walking amongst the dead. The disease had now been acknowledged non-observance of which its prevalence or oblideration might be determined. He had the temerity to chim for their action in Bristol in 1866 and their remarkable success, some part at least of what led to the deprivation of this gaint of his strench. He knew for a fact that their experience in this City was forcibly give his hearers an idea of the realities of an epidemic of cholera in former times, he would place before them a short sketch of the epidemic of 1840 of which he was an eye witness. In 1818 it was known that the disease of the "Wash and be clean and fear nothing" kind were freely distributed; lime briskes, lime and chloride of him ewer at a premium; donkeys, pigs and cowa, and most of the domestic animals located in houses had a had time of it; and medical men men is serious conducts to drove ments to meet the coming cleany. The medical practic barries of the common conducts to drove ments to meet the coming cleany. The medical practic barries are the common conducts to drove ments to meet the coming cleany. The medical practic barries are the common conducts to drove ments on meet the coming cleany. The medical practic barries are the common conducts to drove ments on meet the coming cleany. The medical practic barries are the common conducts to drove ments on meet the coming cleany. The medical practic barries are the common conducts to drove ments of the disease barries are considerably and the common conducts to drove meetical practic barries are also as a considerably and the common conducts of the common conducts of the common conducts of the common conducts of the common co

Mr. Davies next drew attention to statistics, and observed when properly used they were invaluable, but their utility depended on the way in which they were used. In no department had they been more abused than in their application to the returns of health and mortality. He considered the following points essential in the choice of factors for statistics of mortality:—1st that the figures were taken from a sufficient number of people—say not less than 20,000, 2nd that these people should include among them persons of all social conditions and of every possible variety of occupation; 3rd that the returns and calculations made upon them should extend over a period sufficiently long to show a fair average—say ten years; 4th that the returns should be carefully analysed and all exceptional influences deducted before they were used for general conclusions regarding the sanitary condition of any town, district or house. The errors committed under this latter head were of daily occurrence. The usual way of calculating the rate per I,000 per annum was to divide the total population by the number of weeks and diurnal parts of a week in the year. The quotient they called the weekly population. Then it was an ordinary proportion sum—weekly population: number of deaths::1,000, or the number of deaths multiplied by I,000 and divided by the weekly population, would give the rate per I,000 per annum. In the same manner calculations for quarters, months or any sub-divisions of the year nught be made. At the beginning of each year he had the weekly

population of the city, and of every sub-registration district separately calculated, and then the weekly calculations were practically very simple. They added three ciphers to the number of deaths and divided by the weekly population. The weekly calculations were interesting, as showing them which way they were moving, but not of much permanent value, as sometimes in a small district, they might, by the unlearned, he read of most alarming significance. Their figures in Bristol were worked on the same method as was used in the Registrar-General's office, which he believed was devised by Dr. Farr, the best statistician in Europe. The results of the calculations were the best that could be obtained from the returns, but the latter were not what they ought to he, and what some day they would be. Numbers of the medical profession differed much in their nosology, even in well understood diseases; and in diseases well understood there was every possible variety of view as to pathology. A considerable number of persons died without a medical attendant; and in these cases they had only the opinion of some ignorant old woman, or the verdict of a non-professional coroner's jury. To classify such returns so as to give a scientific exact return was not possible. In the meantime, they must do the best they could, and prepare the way for a hetter and more satisfactory state of things.

LECTURE H

Human Food was the subject of Mr. D. Davies's lecture delivered on Friday afternoon at the Bristol Human Food was the subject of Mr. D. Davies's lecture delivered on Friday afternoon at the Bristol Medical School, Tyndall's-park. The lecturer observed that the question of what was unfit for human food might be approached and viewed from two different aspects—the aesthetic or sentimental, and the medical and practical. Judging from the decisions given in the metropolis, and other places, it appeared to him that the different cases of conviction had been chiefly decided on sentimental grounds, and he much questioned whether hy all the convictions that had taken place—except in the case of decomposed fish—a single human life had heen saved or a case of sickness averted. As a medical officer of health he discarded the aesthetic and sentimental altogether. He had never acted on them. He was no judge of meat from a butcher's point of view, and if he were to follow the dictates of his own mere sentiment he should have to condemn in total a large number of articles which furnished nutritions food for those who liked to eat them. a butcher's point of view, and if he were to follow the dictates of his own mere sentiment he should have to condemn in toto a large number of articles which furnished nutritious food for those who liked to eat them. These would include such articles as tripe, eels, crabs, lobsters, sausages, polonies, and other things. He viewed the question exclusively in its medical aspect, and the only point he felt called upon to decide was whether an article was likely to prove injurious to the health of a person using it as food. He did not consider he had a right to answer this in the affirmative unless he could point out what diseases it would engender, and give plain reasons for his opinion; such reasons should be devoid of all sentiment. The problem was much complicated by the fact that animal food in this country, except by a few, was eaten moderately well-cooked, i.e., exposed to a heat that coagulated albumen. This exposure to heat destroyed all germs of organic diseases which might he in the meat, and rendered it harmless, and thus relegated the question to sentiment. However, he was not thus going to heg the whole question in limine, as he had no reason to assume that meat was always well cooked before it was eaten, and he should for practical purposes take the different points suggested by the inquiry in detail. He could lay down no rule on the question of decomposition, as he had no evidence to show that eating high or decomposed meat was injurious to health. Even in fruits and vegetables decomposition did not necessarily render them unfit for food. He would, however, make fish an exception. Fish, if past a certain stage of keeping, frequently became injurious to health—although well cooked, some compounds were found in them which heat could not destroy. He would lay it down as a safe rule that fish when it had the slightest odour of putrefaction was unfit for the food of man, and ought to he condemned. The fact of animals having died without heing hled to death was not a sufficient reason per se for condemnin was not a sufficient reason per se for condemning the flesh as injurious to health, but the circumstance of an animal presenting signs of having died without heing hled should lead one to make a careful examination of the carcase, and to find out whether the death occurred from disease. The foot and mouth disease was of the carcae, and to find out whether the death occurred from disease. The foot and mouth disease was a very infectious disease among sheep, cattle, and swine, hut he could not find any reliable evidence that it was commounicable to man. Butchers did not consider that if animals were slaughtered during an early stage of the disease that it appreciably deteriorated the quality of the carcase, and all authorities agreed that the flesh was not unift for the food of man, and that it was not injurious to health. The head, feet, and udders of the animals should, however, he destroyed. Whether the liver fluke, if introduced into the stomach of man, could retain its vitality was, to him, more than doubtful. This would somewhat depend on the habits of the individual. In modern civilised life we swallowed such a variety and such a quantity of condiments that the eggs of the fluke would not have much chance of surviving until they could reach the disease acted on the animal at first as a local irritiant of the liver, to the improvement of its generacity and the stage of the fluke would not have much chance of surviving until they could reach the disease acted on the animal at first as a local irritiant of the liver, to the improvement of its generacity in the stage of the fluke would and the stage of the fluke of the stage of the stage of the fluke would not have much chance of surviving until they could reach the disease acted on the animal at first as a local irritiant of the liver, to the improvement of its generacity in the stage of a very infectious disease among sheep, cattle, and swine, but he could not find any reliable evidence that it was communicable to man. Butchers did not consider that if animals were slaughtered during an early



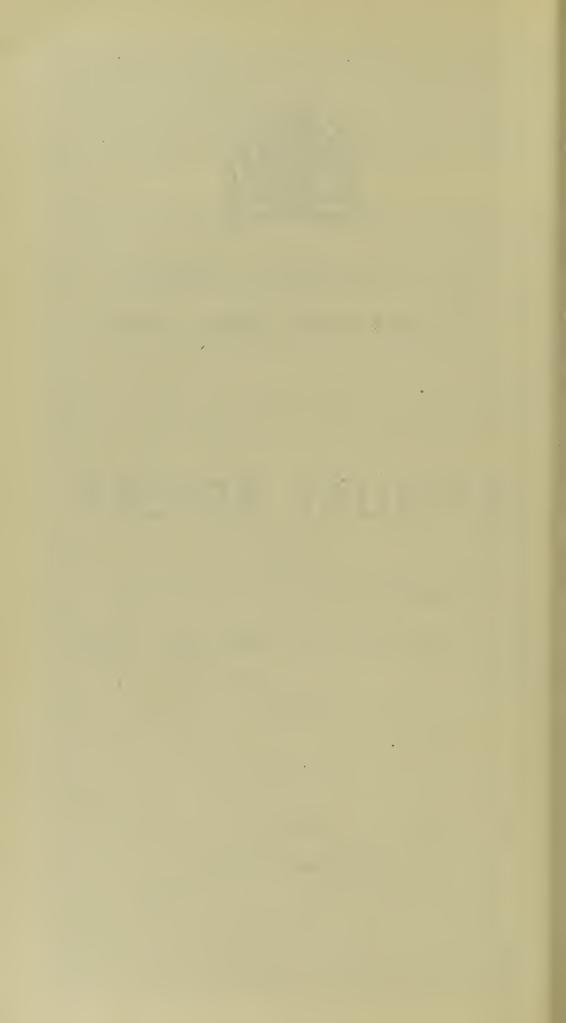
EDUCATION COMMITTEE

ANNUAL REPORT

OF THE

R. H. PARRY, M.D., B.S. (Lond.), F.R.C.P., D.P.H.

1943
(THIRTY-SIXTH YEAR)



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Parents' payments				•••	~		11
Physical instruction	n			•••		•••	17
Provision of meals							17
Ringworm							89
Scabies							9-10
Speech defects						•••	15
Squint			•••	•••	•••	•••	10
Staff		•••			•••	•••	5
Stammering	•••	•••	•••	•••	•••		15
Statistical Tables	•••	•••					-19-20
Tonsils and adenoic							11
Treatment		•••					8
Treatment of pre-so	chool						16
Tuberculosis				•••			15
Uncleanliness		•••					7

BRISTOL EDUCATION COMMITTEE

Chairman – Alderman F. C. WILLIAMS.

Vice-Chairman - Alderman A. L. H. SMITH, J.P.

Medical Services and Child Guidance Management Sub-Committee.

Chairman - Alderman F. C. WILLIAMS.

Chief Education Officer. G. H. Sylvester, B.A.

SCHOOL MEDICAL STAFF.

School Medical Officer and Medical Officer of Health. R. H. PARRY, M.D., B.S., (London), F.R.C.P., D.P.H.

Chief Assistant School Medical Officer.

A. A. Dalby, M.C., M.R.C.S., L.R.C.P. (on active service).

CITY AND COUNTY OF BRISTOL

Population (estimated June, 1943)		•••	•••	370,800
Elementary Schools:—				
Number of Schools		•••	•••	99
Number of Departments	•••	•••	• • •	161
Average Number on Registers	3	•••		42,188
Average Attendance	• • •	•••	•••	34,804

SUMMARY OF WORK DONE DURING 1943.

School Medical Officers :		_			
No. of Visits to Elementary Scho	ools for	routine in	spection		356
No. of Children of Code Groups ex					8,118
No. of Re-examinations in Schools				•••	1,039
No. of Visits to Secondary Schools	s	•••			118
No. of Children examined	•••	•••	•••	•••	2,992
Dental Surgeons :—					
					27,621
No. of Children examined	•••	•••	•••	•••	16,141
No. of Children treated	•••	•••	***	•••	10,141
School Nurses :					
Cleanly	iness S	urvey.			
No. of Visits to Schools					1,816
No. of Examinations of Children	•••				127,275
No. of Homes Visited for uncleanl	iness				2,805
No. of Homes Visited for "followi		'etc.			4,620
	0 1				
Preparation for	r Medi	cal Inspec	tion.		
No. of Visits to Schools					431
No. of Children prepared					12,792

SCHOOL CLINICS.

Total Attendances

250,233

	No. of Attend- ances.	Work.
Central Health Clinic -	58,250	Inspection clinic work; treatment of minor ailments; ear, nose and throat clinic; zinc ionisation; dental treatment; orthodontic treatment; refraction work; X-ray treatment of ringworm; treatment of scabies cases; remedial exercises; electrical treat-
Bedminster Health Centre	46,613	ment; massage and foot treatment. Inspection clinic work; treatment of minor ailments; ear, nose and throat clinic; dental treatment and refraction work.
South Bristol Baths – Knowle Casualty Station – Mayor's Paddock Baths – Speedwell Health Centre –	6,440 14,426 3,164 30,635	Treatment of minor ailments. Treatment of minor ailments. Scabies treatment. Inspection clinic work; treatment of minor ailments; ear, nose and throat clinic; dertal treatment and refraction work.
Verrier Road	5,870	Treatment of minor ailments-mornings
Portway Clinic	18,315	only. Inspection clinic work; treatment of minor ailments; ear, nose and throat clinic; dental treatment and refraction work.
Avonmouth Scabies Centre Southmead Clinic –	233 35,711	Scabies treatment. Inspection clinic work; treatment of minor ailments; dental treatment and refraction work.
Carlton Park Special School	1,626	Treatment of minor ailments.
Novers Open Air School -	13,089	Remedial exercises and massage; treatment of minor ailments.
Chest Clinic Cardio-rheumatic Clinic -	2,847 913	Chest ailments. Cases of heart disease and acute rheumatic infection.
Artificial light Clinic — Child Guidance Clinic — Speech Clinic — — Orthoptic Clinic — —	7,893 1,576 2,473 159	Cases of anaemia and debility.

CITY AND COUNTY OF BRISTOL EDUCATION COMMITTEE

REPORT

of the School Medical Officer for the year ended 31st December, 1943.

INTRODUCTION

I have pleasure in presenting my annual report on the work of the School Medical Service, the thirty-sixth in the series.

In spite of shortage of staff, particularly of doctors and dentists, and many changes, the medical care and welfare of school children has been well maintained during the year.

A large number of evacuated children have again returned to Bristol, the number remaining in the reception areas at the end of 1943 being 2,440 (unaccompanied).

There is still a considerable number of children with verminous heads (see page 7). This is perhaps to be expected because home supervision of the children is much reduced by the absence of parents on war service, and re-infection of the cases is common. We are fortunate in that our standard method of treatment (Lethane Brilliantine) has proved so effective in dealing with all types of verminous conditions. Bad infestation is not common.

What is true of general uncleanliness is also true of scabies, and there has been an increase in the number of cases treated during 1943. The main method of treatment, which has proved to be very effective, is with benzyl-benzoate (page 9).

Orthodontic treatment was commenced in August 1942. The year under review is the first complete year of operation of the scheme under the direction of a consultant. (page 12).

The work carried out at the Foot Clinic is a valuable addition to the School Medical Service, and there has been an increase in the number of attendances. (page 13).

The Speech Clinic has been of great benefit to the children, and in addition to the cases of speech defect, cases of asthma have been referred to the Clinic for breathing, rhythmic movement work and relaxation. Full details of the work done during 1943 are to be found on page 15 of the report.

The campaign for immunisation against diphtheria, which was carried out during the latter part of the year achieved good results and it is estimated that at least 70% of the school children in Bristol have now been immunised.

Co-operation between the School Medical Service and the Health Department in all its branches has been excellent throughout the year. It is particularly important that this shall be so in wartime, for it is impossible to separate the health of the school child from that of the family as a whole.

My best thanks are due to Mr. G. H. Sylvester, Chief Education Officer, and to his deputy, Mr. Brand, ready at all times with valuable assistance. I must also thank the teachers of Bristol for their courtesy and co-operation through another year of war.

STAFF.

The following staff changes have taken place during the year:—

Medical.

Resignation.

Mary I. Meyers, M.R.C.S., L.R.C.P.—4th September, 1943.

Clara Jahoda, M.D. (Vienna)—11th January, 1943.

Dental.

Mobilisation.

G. W. Vowles, L.D.S.—1st April, 1943.

Appointments.

Mrs. Jean Brown, L.D.S.--8th February, 1943.

G. W. Morgan-Fletcher, L.D.S.—Two extra sessions per week from 23rd March making a total of six sessions weekly.

Mrs. Jean Brown, L.D.S.—17th May, 1943.

Nursing.

Resignation.

Miss I. M. Ralph, Matron, External Nursing Services—30th April, 1943. Mrs. D. Hauser, resigned 30th April, 1943 and re-engaged part-time from 1st May, 1943.

Appointments.

Miss W. A. Johnson, as Matron—1st June, 1943. Miss L. M. Bendall, as Deputy Matron—1st June, 1943.

Mrs. D. Clifford, Part-time for work in nursery schools and classes-25th January, 1943. Mrs. G. Blower, Part-time for work in nursery schools and classes—

1st February, 1943.

Miss D. Williams, as an untrained adult helper to assist in scabies bathing and the cleansing of verminous heads in the Southmead and Portway areas in accordance with the suggestion made in Board of Education Circular 1604.

Evacuation.

The following returned to Bristol from reception areas:—

Sister Honeyball-Cornwall-11th January, 1943.

Sister King—Devon—1st February, 1943. Sister Cording—Devon—31st July, 1943.

Sister Thorne was seconded for service in Cornwall from the 4th January, 1943 and returned on the 30th April, 1943.

Child Guidance Clinic.

Miss P. M. D. Wigan, Psychiatric Social Worker at the Child Guidance Clinic resigned on the 7th September, 1943 and was replaced by Miss Isobel Munroe through the Provisional National Council for Mental Health, having been loaned to this country by the Canadian Children's Service.

SCHOOL EVACUATION.

There has been no development in connection with the evacuation of Bristol Elementary School children during the year under review and, as has been the general experience throughout the country, there has been a continual drift back of children.

No large school party evacuation has been carried out during the year, and whilst small parties of children whose cases had been specially considered were sent out from time to time, this practice is now held in abeyance on the instructions of the Ministry of Health.

Two residential nurseries were closed during the year—"Filkins," Lechlade and "The Cedars," Purton. The children were transferred to other residential nurseries.

The approximate number of unaccompanied Bristol children remaining in the reception areas at the end of the year was 2,440 of which 189 were of nursery age, 189 from Special Schools, 44 from the Junior Technical School, 21 from the Junior Commercial School and 104 from Secondary Schools,

FINDINGS OF MEDICAL INSPECTION.

A complete medical inspection was made of 8,118 children during 1943. Defects requiring treatment or observation were as follows:—

					Medical	Inspection.
					For Treatment	For Observation
Skin diseases			• • •		51	2
Defective Vision					218	45
Squint	•••				24	13
External Eye Dise	ease				5	1
Defective hearing					8	6
Otitis media and o		ı diseases	•••		19	3
Enlarged tonsils		•••			80	63
Adenoids					28	16
Enlarged tonsils a	nd aden	oids			74	24
Other nose and th					19	4
Organic heart dise	ase	•••			34	14
Functional		•••			13	9
Anaemia					4	27
Rheumatism		•••			3	3
Chorea						1
Orthopaedic and p	ostural	defects			125	27
Th. Pulmonary de	finite			• • •		<u>-</u>
Tb. Pulmonary su	spected			• • •	37	5
Tb. Glands	•••	•			3	
Tb. other forms		•••			12	1
Malnutrition	•••	•••	•••		3	58
For Milk and Mea	ls etc.	•••		• • •	10	_
Uncleanliness	•••	•••			34	10
Teeth	•••	•••			325	3
Other defect or dis	sease	•••			144	146

Malnutrition.

The classification of nutrition of children scen at school medical inspection in the last 3 years is as follows:—

	No. Inspected	A (Excellent) No. %		B (No.	ormal) %	C (Sl.St No.	ıb.Nor.) %	D (Bad) No. %		
1941	4,855	828	17.06	3,397	69.97	620	12.77	10	0.2	
1942	5,656	659	11.65	4,346	76.84	627	11.08	24	0.42	
1943	8,118	1,544	19.02	5,781	71.21	783	9.65	10	0.12	

No. of cases referred for treatment and observation from Medical Inspection, etc.

	1941	1942	1943
	Routine	Routine	Routine
	M.I.	M.I.	M.I.
No. examined Ref'd for treatment for malnutrition Received milk/meals Received C.L.O.M., etc Received observation for malnutrition	4,855	5,656	8,118
	6	8	3
	19	5	6
	8	-	4
	57	70	58

Nurses' Survey.

	1941	1942	1943
No. surveyed	38,853	41,430	51,801
No. referred to Clinic for malnutrition	17	38	10
No. advised to buy milk	645	735	1,056

Malnutrition cases seen at Clinic.

	1941	1942	1943
No. of cases of malnutrition seen at Minor Ailment Clinics	104	123	60

Milk and Meals.

		1941	1942	1943
Free meals supplied Free milk/meals supplied	 	188,132 497,763	172,622 375,657	146,925 297,649

Uncleanliness.

No. of individual children found with	1941	1942	1943
verminous heads	3,605	4,009	5,051
Exclusions from school for verminous head	795	474	327
Prosecutions for verminous head	33	30	35

In accordance with the recommendations contained in Circular No. 2831 an intensive effort has been made during the year to combat the problem of verminous conditions in school children.

The four partly trained women helpers appointed in the latter part of 1942 have been actively engaged during the whole of the year in dealing with the treatment and cleansing of children found to be verminous. 2,290 individual children were treated in this way during the year for varying degrees of verminous conditions. The number of nurses' visits to schools for the purpose of examining children was considerably increased, 1,816 visits being made during the year as against 1,370 in 1942. The increased activity in this direction is reflected in the larger number of individual children found with verminous conditions, the total being 5,051 as compared with 4,009 in 1942.

The number of exclusions from schools for verminous heads is lower again this year. Owing to the number of mothers on war work, the policy adopted last year of not excluding children unless absolutely necessary is being continued. Close attention has been paid to the "family aspect" of the problem, and where a child is found to be verminous the home is visited and arrangements made for all other children in the family, whether "school" or "under school" children, to be examined and treated.

The large number of mothers on war work has increased the difficulty of interviewing, many visits having sometimes to be made before the mother can be seen. The problem of the indifferent mother, too, has been accentuated by wartime conditions, and 35 parents had to be prosecuted during the year compared with 30 in 1942.

The standard treatment, using Lethane Brilliantine, was carried out during the year and proved effective in dealing with all types of verminous conditions.

SCHOOL NURSES.

Following	is	a	summary	of	the	Nurses'	Survey	for	the	year :
-----------	----	---	---------	----	-----	---------	--------	-----	-----	--------

Following is a summary of	the Mu	rses Sur	vey for t	ne year	
No. of sessions No. of children surveyed No. with defects		•••	•••	•••	1,166 51,801 5,200
Of the cases with defects:—					
No. already under treatm No. referred to clinic do No. referred to clinic Eye Minor ailments referred for Underweight children ad Will attend own doctor of Refusals	ctor Special or treat vised to	tment o have m	 ilk in scl 	 	517 1,650 1,219 616 1,056 120 22
Of the cases referred to Clini No. requiring treatment of No. discharged—no treat No. already obtained trea	· or obser ment o	vation	 ition requ	 iired	1,219 51

The defects referred to Clinic Doctor requiring treatment, or to be kept under observation, were:—

379

1.650

No. failed to attend clinic

•					
Skin				•••	264
Scabies		•••		• • •	300
Eye disease		•••	•••	•••	70
Defective vision				•••	45
Ear disease					33
Nose and Throat					243
Teeth		•••	•••	•••	1
Lungs					4
Deformities	•••	•••		•••	24
Malnutrition	• • •	•••		•••	10
Other defects or d	liseases	• • •	•••	•••	314
					1.308

Visits to schools in respect of verminous conditions, skin diseases and general neglect numbered 1,816; 127,275 examinations (including 3,533 re-examinations) of children having been made.

Co-operation between nurses and head teachers is very close, and the valuable assistance given by teachers and school attendance officers is greatly appreciated.

Home Visiting.

During the year the number of visits for the purpose of "following up" defects, etc., was 4,620. Other visits in regard to uncleanliness, etc., totalled 2,805.

TREATMENT.

The total number of attendances at the clinic during the year was 250,233.

Skin Clinics.

Scalp Ringworm. 86 cases of scalp ringworm were dealt with during the year, and all except three were treated at the Committee's clinics, 48 by X-Ray—35 otherwise.

The number of cases of scalp ringworm among school children diagnosed at Minor Ailment Clinics during 1943 was 105 (103 Elementary and 2 Nursery). Nineteen of these were, however, subsequently diagnosed by Dr. Bell at Central Clinic as not ringworm, leaving a net figure of 86 (84 Elementary and 2 Nursery). This compares with 35 (34 Elementary and 1 Nursery) in 1942 and 26 (Elementary) in 1941.

The increase last year was due to a large number of cases from the Knowle West area—60 definite cases being reported from Bedminster Cliric—mainly from Connaught Road and Ilminster Avenue Schools. Of the 86 cases confirmed, 48 were treated by X-Rays, 35 by drug treatment at the Clinic, and 3 were treated by own Doctor or hospital.

The cases treated by X-Rays in 1943 and the two preceding years are as follows:—

	1941	1942	1943
Elementary Schools Nursery Schools	 20	29 1	47
Total	 20	30	48

X-Ray Treatment.

Dr. F. Gower Bergin, who is in charge of this department, reports as follows .--

"There has been an increase in the number of scalp ringworm cases treated this year. One interesting point is the number of patients who trace their infection to contact with cats with body ringworm. This is rather worrying as the cats are presumably still at large and liable to infect others.

The Victor X-Ray Tube has proved a very good investment and is doing excellent work."

Body Ringworm.

There was also an increase in the number of cases of body ringworm in 1943, 389 school cases being diagnosed as against 309 in 1942 and 209 in 1941. Again this increase was from the Bedminster area, 178 cases having been referred from Bedminster Clinic.

The nurses have kept the schools concerned under close observation, and in Connaught Road School, have made complete examinations on two occasions of all children in the school, for the purpose of ascertaining any children with ringworm who may have been missed.

During 1943, 389 cases of this disease were under observation, of which 387 were treated at the school clinics.

Impetigo. The school clinics treated 1,881 cases of impetigo during the year, a rapid cure being effected in all cases.

Scabies. The following table shows the number of scabies cases treated in 1943 and the two preceding years.

	School cases	"Under School"	Adults		
		cases	Women	Men	
1941 1942 1943	2,062 3,927 3,197	577 1,017 1,014	1,181 2,405 2,523	582 1,313 1,089	

The number of scabies cases dealt with each month in 1943 is as follows:-

			"Under School"	Adults		
		School cases	cases	Women	Men	
January		291	90	257	134	
February		375	117	261	106	
March		390	74	234	111	
April		285	103	236	77	
May		177	72	186	77	
June		225	63	143	82	
July		285	86	252	90	
August		183	62	159	68	
September		305	86	177	94	
October		293	131	254	108	
November		226	73	220	82	
December	•••	162	57	144	60	
Total		3,197	1,014	2,523	1,089	
Comparative Total 1942	e	3,927	1,017	2,405	1,313	

The numbers of scabies cases in 1943 generally were much the same as last year except amongst school children, where there was a slight drop as compared with 1942—3,197 cases as against 3.927. Treatment with Benzyl Benzoate solution has been continued throughout the year, except in the case of very yourg children who are treated with Sulphur Cream. The patients' personal clothing and bedding are disinfected in all cases.

An additional scabies treatment centre was opened in April at Avonmouth and this has proved of great assistance in dealing with cases in the Avormouth Sea Mills and Shirehampton areas.

In November, the treatment of women and children patients was transferred from the Mayor's Paddock Baths to the Gas Cleansing Station in Marybush Lane, near the Central Clinic.

Eye Clinics.

Mr. R. R. Garden, M.B., Ch.B., D.O.M.S., the Committee's Ophthalmic Surgeon, reports as follows:—

"During 1943 a total of 3,345 school refraction cases attended the clinics, including 2,924 from elementary, 377 from secondary, 17 from nursery schools and 27 from Special Schools. In 552 of the new cases, spectacles were not ordered, but a number of them will attend for periodical observation. Altogether 1,793 pairs of spectacles were supplied by the school opticians for children examined through the Committee's scheme, and 2 by other opticians. In 9 cases, the parents made their own arrangements for the examination and purchase of glasses.

The number of attendances for the treatment of external eye diseases during 1943 was 4,552.

New squint cases numbering 162 and 552 from previous sessions (kept under observation or treatment), attended during the year. Of the new patients, 72 came from the Maternity & Child Welfare Department and 15 from Nursery Schools.

The work of the Orthoptic Clinic at the Eye Hospital was interrupted for a time during the year owing to changes of staff, and a reduction occurred in the number of attendances. The following table shows the work done at this clinic during 1943:—

Total number of cases examined for the first time	•••	20
Total number receiving treatment during the year	•••	15
Number improved		8
Number receiving treatment twice weekly at the en	d of the	0
year	•••	100
Total number of attendances for treatment		139

In addition to the cases treated by orthoptics, 36 Bristol school children who have attended the Committee's Eye Clinics or my out-patient clinic at the Eye Hospital have had the operation for squint with satisfactory results. In practically all such cases, the Orthoptist carried out an examination before and after operation for the purpose of estimating the type and angle of the squint, the effects of the surgical work done, and to ascertain if orthoptic exercises were also advisable to help in the cure."

Provision of Spectacles.

Glasses are supplied at contract prices through opticians appointed by the Committee and when parents cannot pay the amount due at once, arrangements are made whereby instalments are collected by the Attendance Officers.

Spectacles obtained through	gh schoo	l contrac	t arrange	ments	199
Purchased by parents throu	igh scho	ol opticia	ns		1,594
Purchased privately		•••	•••		11
					1,804

Defects of Nose and Throat.

The number of children found suffering from the above ailments was 1,989 of whom 915 received treatment. Operative treatment of enlarged tonsils and adenoids is performed at the various City Hospitals, 746 cases being so treated.

Aural Clinics.

Mr. Gordon R. Scarff, F.R.C.S. (E) the Aural Surgeon reports as follows:-

"During the past year, the number of children suffering from aural defects attending the clinic was 235, of whom 159 were suffering from middle ear suppuration.

The treatment of middle ear suppuration is being carried out on the same lines as before—that is dry cleansing of the ear followed by the insufflation of iodised boracic powder. 51 of the more chronic cases have been treated weekly by ionisation. In 9 cases the discharge has cleared up.

When there is any focus of infection in the nose or throat, these cases are referred to the various hospitals for treatment.

The number of chronic cases continues to be small, 42 children were attending for treatment at the end of the year, of whom a small proportion were cases of recent suppuration.

School cases for diagnosis as to enlarged tonsils and adenoids numbered 370, and 27 were also referred from the Maternity and Child Welfare Department."

Child Guidance Clinic.

Dr. Frank Bodman, the Acting Director, reports:—

"The Child Guidance Clinic is now working to capacity. There has been a further increase in the work of the various departments of the clinic, the total number seen in the clinic being 485 compared with 428 last year.

The weekly case-conferences continue to serve as a useful medium for demonstrating the work of the clinic to persons interested in the Social Services and child guidance work.

The Bristol Child Guidance Clinic has been recognised as a training centre for child psychiatrists by the Provisional National Council for Mental Health.

There has been an increase in the number of cases referred directly by parents, and also by Probation Officers after the young persons have been put on probation.

There has also been a considerable increase in lectures given by members of the staff of the clinic. Lectures have been given to School Medical Officers, to allied Social Workers, and a number of French Social Workers by arrangement with the British Council. Lectures have also been given in a post graduate course arranged by the College of Nursing; to Youth Leaders by arrangement with the Youth Committee, and to A.T.S. Officers by arrangement with the University of Bristol. These lectures have proved of great value in putting across a psychological angle to responsible members of the public."

In addition to the cases seen at the Child Guidance Clinic, the following numbers have also been examined by the Psychologist:—

At the Clinic	•••		•••	452
In Schools		•••		184
In Childrens' Hospital				60
In Remand Home			•••	31
Re-examined in Special	Schools	•••		39
				766
	In Childrens' Hospital In Remand Home	In Schools In Childrens' Hospital	In Schools In Childrens' Hospital In Remand Home	In Schools In Childrens' Hospital In Remand Home

* 33 cases in addition to this number were seen by the Psychiatrist only.

Dental Clinics.

Mr. W. H. B. Stride, L.D.S., Supervisory Dental Surgeon, reports as follows:—

"The number of whole time dentists has been reduced to 4 by the call up for military service of Mr. Vowles on 1st April. The panel of part-time practitioners now give 18 sessions each week and in addition 2 sessions are given to Emergency Medical Services at Southmead. This has of necessity again resulted in a reduction in the amount of school work that could be undertaken, but fortunately it will be possible to increase the staff again early next year.

On an average, 12 sessions a week are given to health work by the full-time staff. The number of elementary children inspected in school was 23,860. In addition 1,054 nursery school children were inspected and treatment was given to 275 children in secondary schools. The inspection sessions numbered 203 as against 2,239 devoted to treatment, a ratio of 1:11.

The number of casual cases seen was 2,264.

Particulars of the work done by the school dentists for mothers and young children under the joint scheme of the Education and M. & C.W. Committees are as follows:—

	Motl	ners	Pre-School children
New cases Attendances	Expectant 934 2,544	Nursing 247 531	629 883

This occupied 305 sessions of the dentists' time.

Orthodontic Treatment.

Since the orthodontic work was commenced in August 1942, 440 cases have been examined and 240 referred to the Dental Hospital for appliances. The number dealt with by extractions at the clinics was 207. Parents are showing themselves very keenly interested in this special work and make every effort to attend the orthodontic session, and this is resulting in very good attendances."

New cases			•••		294
No. referred fe	or treat:	ment at I	Dental Ho	spital	146
No. referred fo	r treatn	ent at Ce	ntral Hea	Ith Clinic	168
X-Rays	• • •		•••	•••	106
Impressions	•••	•••	•••	•••	275

Orthopaedic and Postural Defects.

Mr. Hubert Chitty, M.S., F.R.C.S., the Orthopaedic Surgeon, reports as follows:—

"Very extensive use is made of the Orthopaedic Clinic. Postural and other defects are usually detected by the School Medical Officers at a very early stage and promptly sent up for treatment. This minimises the need for surgical intervention, and those cases which do require hospital treatment are admitted with very little delay. The results obtained continue to be very satisfactory."

Foot Clinic.

The clinic for the treatment of minor foot ailments opened under the direction of a member of the Incorporated Society of Chiropodists (who is working in a voluntary capacity) has continued to operate during the year.

The number of children treated at the Foot Clinic showed a steady increase during the year and reached the total of 308 which was made up as follows:—School children—288 (elementary 254; secondary 34) and under school age—20. Treatmen⁺ was also given to a few mothers from the ante-natal clinics.

Treatments given numbered 1,324. There were 114 cases of verrucae. The next largest classification was that of foot deformities including hallux valgus, hallux rigidus, pes cavus and pes planus. As these were mostly in the very early stages they were dealt with by remedial exercises and alterations to footwear. It is interesting to note that there was no case of real flat foot, although a few were seen which might have developed in that direction.

It was found necessary to refer approximately 30 cases to the orthopaedic department. In about six or seven of these, surgical operation was found to be necessary, the remainder being dealt with by physics, therapy and massage.

One of the great difficulties, due to war conditions, is the repairing and altering of footwear but this should disappear when peace returns. This clinic makes a valuable addition to the treatment services already given at the health centres.

The following is a summary of defects treated:-

		Elementary		Secondary	
		lst	Other	lst	Other
Hammer toes		8	84	1	5
Metatarsalgia		21	45	2	4
Verruca		100	425	14	68
Pes cavus	(1	8	58	2	1
Foot strain		71	203	10	22
Miscellaneous	/	46	113	5	8
		254	928	34	108

The total attendances of school children for treatment during the year were 1,324. (20 cases of children under school age were also seen).

Heart Disease and Rheumatism.

Professor C. Bruce Perry reports:—

"The work of the clinic has continued as usual. The figures call for little comment, except that the number of cases of rheumatic heart disease and chorea, recommended for institutional treatment, increased from 28 to 37. This reflects the increase in the incidence of the disease which occurred in the spring of 1943 and which checked the downward trend noted in previous years. This has not been peculiar to Bristol but has been noted all over the country.

SUMMARY OF CASES ATTENDING CARDIO-RHEUMATIC CLINIC.	No treatment, Treatment, and exclude Institutional Total. or restriction. of games. attend school. from school. treatment.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	168 8 3 2 31 212	TIONS. To sease 255 56 15 56 15 69 17 342 18 8 - 150 - 175 18 8 - 255 18 175 19 19 19 19 19 19 19 19 19 19 19 19 19	516 70 27 14 11 638	No. of individual children examined 595 No. of new cases for 1943 212 No. of re-examinations 638 Total No. of attendances 850
SUN		NEW CASES. Rheumatic Heart Disease Chorea No Organic Disease Congenital Heart Disease Doubtful		RE-EXAMINATIONS. Rheumatic Heart Disease Chorea No Organic Disease Congenital Heart Disease Various		

Chest Clinic.

1.034 children were examined by the Tuberculosis Officer, of which 343 were old cases and 601 new. Of the latter, 23 were classified as definite pulmonary tuberculosis, 28 as cases of non-pulmonary tuberculosis and 640 as non-tubercular.

Artificial Sunlight Clinic.

During 1943, 347 children of school age were given artificial sunlight treatment. Full details of the cases are given below:—

Defect			No. Treated	Improved	Stationary
General Debility			96	68	28
Bronchitis		•••	33	30	3
Coughs, etc.		•••	35	.22	13
Enlarged glands			42	30	12
Malnutrition			8	8	-
Other defects	• • •	•••	133	91	42
			347	249	98

Speech Clinic.

Miss D. Wilson, M.S.S.T., reports :-

"During the spring and summer terms the work of the Speech Clinic was carried on in the five school centres. Lack of quiet and little chance to grade the classes made the work very difficult. The preponderence of speech defects, the wide difference in ages and the lack of waiting room accommodation made it impossible for the stammerers to do good, steady work. The work of the clinic was coming down to the level of the dullest children.

On August 16th the Speech Clinic opened at Lime Tree House. This gave us one large room for class work, with a small adjoining room for the sand trays. This room can also be used by the doctor when seeing the children with the mothers. There is also a good waiting room. The whole clinic is pleasant and light and has a delightfully happy atmosphere. The quality of the work has improved accordingly.

The move from the five centres to the one, meant losing many younger children who had been able to come alone when the clinic was near their school. This was not as serious as it appeared. Young children coming to the clinic without the mothers made very little progress, since it is most important to have the mother's help for the daily practice.

There was a long waiting list in August. This was gradually cleared, filling the places of the children who had been discharged or had discontinued attendance.

Sessions. Seven sessions per week are devoted to the work, five as class sessions, one for interviewing new cases or for examination of children by the doctor, and one session for writing.

In November, asthma cases were referred to the Clinic. Prior to this the only asthma cases taken had been those needing help for speech or stammer.

Asthma cases are taken for breathing, rhythmic movement work and relaxation. Special attention is given to re-education of parent and child. All cases are seen by Dr. Irving-Bell soon after admission and again whenever extra advice is needed. Already these children are standing better, looking well and attacks of asthma are lessening. The register now numbers:—

Smooth Defeat					20
Speech Defects	•••	• • •	• • •	• • •	30
Stammerers					30
Stammer and Sp	eech I	Defect		•••	11
Astlima				• • •	12
Asthma and Sta		•••			3
Asthma and Spo	ech De	efect			3

The waiting list now numbers over 50 and more names are coming in every week.

Cases of asthma and stammer are admitted with as little delay as possible. Cases of speech defect are having to wait. These cases need individual attention and already each session has more speech defect cases than can be dealt with in the allotted time. Therapist and children are having to work overtime.

Parents and children are unanimous in their praise of our new premises."

Medical Treatment of the Pre-school Child.

The following cases were dealt with during the year :-

Eye Disease				103
Otorrhoea				169
Skin diseases		•••	• • •	655
Minor ailments				275
Aural Surgeon's cases		•••		44
Eye Specialist's cases		•••		129
Heart Specialist's cases		•••		_
Orthopaedic Specialist's	cases			195
Various	•••	•••	•••	278
				1,848

INFECTIOUS DISEASE.

The number of cases of diphtheria occurring in children of school age during the year was 152 as compared with 187 in 1942. The deaths from this disease were 4 as against 5 in the previous year. There were 8 cases of cerebro-spinal fever as compared with 7 cases in 1942.

During 1943, 6,430 children of school age received a full immunising course of inoculations against diphtheria.

The complete figures for the year are as follows:-

Number given full course of immunising	g inoculations	•••	6,430
Number given a "booster" injection			3,282

As a war-time measure the routine schick-testing of children who received a course of inoculations has been discontinued.

Immunisation against Diphtheria.

During the latter part of 1943 a vigorous campaign was undertaken through the schools and clinics to endeavour to obtain the immunisation of all Bristol children who had not yet been immunised. With the willing co-operation of the head teachers a special effort was made to secure the consent of those parents who had previously refused. In the cases of children who had been immunised two years or more previously, a single booster dose was recommended.

Altogether, 6,430 children of school age were given a complete immunising course, and 3,282 received the booster injection.

It is estimated that at least 70% of the school children in Bristol have now been immunised.

PHYSICAL INSTRUCTION.

Mr. J. Mc A. Milne, Chief Organiser of Physical Training, reports:—

"The general standard of the work is still seriously affected by the lack of suitable teachers, but every endeavour has been made to see that all children regularly obtain a reasonable amount of physical activity. The boys' work has suffered more than that of the girls owing to the number of men being in the Services.

It has been found advisable to broaden the scope of activities and the number of classes attending swimming during the year has been considerably increased. The swimming results have been very satisfactory, as the number of Corporation Swimming Certificates obtained this year has been a record. The actual number obtained was 2,803 which is approximately 300 greater than the pre-war record.

The number of fields used as Games Centres for youths and adults, opened during the summer months, was increased to six, and all these fields which provided facilities for adolescents and adults playing games or taking part in athletic practices were used to capacity."

PROVISION OF MEALS.

The service of meals has continued to develop during 1943 and at the end of the year 980 children were receiving free meals and approximately 9,500 on payment. Facilities for school meals are available in all the municipal secondary, technical, nursery and special schools and exist in 136 elementary school departments. There are 31 kitchens in the city producing school meals and plans are in hand for the erection of several new kitchens.

During the year 146,925 free dinners have been supplied as compared with 172,622 in 1942. In addition 297,649 free milk meals were given.

Milk in Schools.

The supply of milk under this scheme was continued, the arrangements being supported by Head Teachers as in former years. The return taken in October 1943 showed that 81.39% of the children in elementary schools were receiving milk either free or on payment.

CO-OPERATION OF PARENTS.

The number of parents present at elementary school medical inspections was 5,222 (64.33%) compared with 4,458 (78.82%) last year.

MISCELLANEOUS.

The following report has been received from Mr. L. A. Tavener, Employment of Children Inspector:—

During the year there were 1,223 cases of infringement of the Children and Young Persons Act, 1933, and Bye Laws made in pursuance thereof:—

By employers				561	
By parents				56 6	
By street traders				16	
Prosecutions, etc.		•••		80	
	•••	•••	•••		1.223
These were dealt with as followers	ows:—				1,220
Warned				1,143	
Final Notices	• • •			28	
Prosecutions :—					
Pending				4	
Withdrawn	•••	• • •	• • • •	4	
		•••	•••	_	
Employment cards re		• • •	• • •	3	
Employment cards re	efused			41	
•					1 993

During the year 399 children between 13 and 14 years of age were registered for employment, and 1 licence issued and 1 renewed for street trading for children from 16 to 18 years of age.

Entertainments.

One licence for a child to take part in public entertainment under the Children and Young Persons Act, 1933, was refused, and one licence granted by an outside Authority.

1,493 children were granted permission to take part in 50 entertainments given for charitable purposes.

STATISTICAL TABLES.

ELEMENTARY SCHOOLS.

Table I.—Medical Inspections of Children attending Public Elementary Schools.

A.—ROUTINE MEDICAL INSPECTIONS.

Number of Inspections	: ─				
Entrants		•••			3,616
Second Age Group	•••				101
Third Age Group		•••	•••	•••	4,401
					8,118
No. of other Routine	Inspection	s :—			•
(Medical Survey)—No.	of children	n surveye	\mathbf{d}		_
		Gra	nd Total		8,118
В	.—OTHE	R INSPI	ECTIONS.		
Number of special	inspection	s and re-i	nspections		52,372

TABLE II.

CLASSIFICATION OF THE NUTRITION OF CHILDREN INSPECTED DURING THE YEAR IN THE ROUTINE AGE GROUPS.

Number of Children Inspected	(Exce	A llent)	(Nor	mal)		c ghtly ormal)	(B) ad)
Inspected	No.	%	No.	%	No.	%	No.	%
8,118	1,544	19.02	5,781	71.21	783	9.65	10	0.12

TABLE III.

GROUP I.—Treatment of Minor Ailments (excluding uncleanliness).

Total Number of Defects treated or under treatment during the year under the Authority's scheme:— 23,527

GROUP II .- Treatment of Defective Vision and Squint.

			-	Under the Authority's scheme
errors of Refraction (including of the e				2,898
(excluding those recorded in		I) .	• • •	23
	TOTA	L		2,921
Sumber of children for whom sp	pectacles	were	· · · · · · · · · · · · · · · · · · ·	
(a) Prescribed	•••	•••	•••	1,588
(b) Obtained	•••	•••	•••	1,557

GROUP III.—Treatment of Defects of Nose and Throat.

		Under the Authority's Scheme
•••		166
•••		166 .
	•••	

TABLE IV.

DENTAL INSPECTION AND TREATMENT.

(I) The number of child	fren inspected by t	the Dentist-	_		
(a) Routine ag	e groups	•••			23,860
(b) Specials		•••	•••		1,883
(c) TOTAL (R	outine and Special	ls)	•••		25,743
(2) Number found to re-	equire treatment		•••		16,726
(3) Number actually tre		•••			15,515
(4) Attendances made b	y children for tre	atment	•••		23,294
(5) Half-days devoted to	:—Inspection			203	
, ,	Treatment	•••	•••	2,239	
		OTAL*			2,442
(6) Fillings:	Permanent Tee			9,634	
	Temporary Te	eth		642	
	1	OTAL	•••		10,276
(7) Extractions:	Permanent Tee	eth		4,083	
	Temporary Te			17,965	
		COTAL	•••		22,048
(8) Administrations of go	eneral anaesthetics	for extracti	ons		10,106
(9) Other operations:	Permanent Tes			3,875	,
1	Temporary Te			427	
		OTAL	• • •		4,302

 $^{^{*}}$ In addition, 305 sessions were devoted to the treatment of mothers and young children.

· TABLE V.

VERMINOUS CONDITIONS.

(i) Average number of visits per school made during the year school nurses	r by	11.6
(ii) Total number of examinations of children in the school school nurses	s by	127,275
(iii) Number of individual children found unclean	•••	5,051
* (iv) Number of individual children cleansed under Section 8' and (3) of the Education Act, 1921	7 (2)	
(v) Number of cases in which legal proceedings were taken: (a) Under the Education Act, 1921 (b) Under School Attendance Byelaws		. 15
* 2,290 individual children were however, treated for va- verminous condition at the clinics (with parents consent).	arying	degrees of

TABLE VI.

BLIND AND DEAF CHILDREN.

		l At a Public Elementary School	2 At an institution other than a Special School	3 At no School or Institution
Blind children		_	at private school	-
Deaf children	•••	5	at private school	2

CITY AND COUNTY OF BRISTOL

Report

OF THE

Mental Deficiency Acts Committee

For the Year 1943

CITY AND COUNTY OF BRISTOL

Mental Deficiency Acts Committee

COUNCIL MEMBERS:

The Rt. Hon. THE LORD MAYOR

(Alderman F. C. WILLIAMS, J.P.)

F. J. Burgess, Esq., (Chairman).

Mrs. A. A. Nunn, (Vice-Chairman).

Alderman W. H. Byrt, J.P.

W. BAKER, Esq.

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W. DANCY, Esq.

Mrs. D. P. Dobson, M.A., LITT.D., J.P.

W. S. Scull, Esq.

NON-COUNCIL MEMBERS:

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Mrs. M. L. Gunning.

Mrs. A. E. M. HAMPTON.

Mrs. F. V. Underdown.

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E. M. TAPSON, Esq., F.S.A.A., F.I.M.T.A., City Treasurer.

R. H. PARRY, Esq., M.D., B.Sc., M.R.C.P. Lond., D.P.H.,

Medical Officer of Health.

OFFICERS OF HORTHAM COLONY

JOHN F. LYONS, Esq., L.R.C.P. & S.I., D.P.H., D.P.M.

Medical Superintendent.

G. de M. Rudolf, Esq., M.R.C.P., M.R.C.S., D.P.H., D.P.M. Visiting Medical Psychologist (On Active Service).

J. L. FAULL, Esq., M.R.C.S., L.R.C.P., D.P.M.

Visiting Medical Officer.

JOHN FELLOWS, Esq., F.H.A., Steward.

Miss Margaret E. Hogarth, Matron.

Rev. A. Walmsley, Chaplain (Church of England).

Rev. C. FENELEY, Chaplain (Noncomformist).

Rev. Father K. Kenny, Chaplain (Roman Catholic).

CONSULTING STAFF

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J. A. NIXON, Esq., C.M.G., B.A., M.D. Camb., F.R.C.P., Lond.

CITY AND COUNTY OF BRISTOL MENTAL DEFICIENCY ACTS, 1913-1938

In pursuance of Article 12 of the Mental Deficiency Regulations the appended report on the work of the Council under the above Acts for the year ended 31st December, 1943, is submitted.

Part I deals with Hortham Colony Certified Institution.

Part II deals with the domiciliary work connected with defectives carried out by the Medical Officer of Health.

A statement of the expenditure and income for the year ended 31st March, 1944, is also appended.

F. J. BURGESS, Chairman.

The Council House, Bristol. May, 1944.

PART I.

HORTHAM COLONY

To the Chairman and Members of the Mental Deficiency Acts Committee.

Mr. Chairman, Ladies and Gentlemen

I have the honour to submit my report for the year ended 31st December, 1943.

	Adı	ults	Chi	ldren	Total
	M	W	В	G	
Number of patients resident	223	213	116	69	621
,, ,, on licence	81	88	5	2	176
,, ,, ,, at hospitals	_	5	_	_	5
,, ,, ,, at mental hos.	_	3	_	_	3
,, ,, absconded	1	_	_	-	1
	305	309	121	71	806
	-:-		M	F	Total
Number of Bristol patients residen	t		183	125	308
,, ,, ,, ,, on licer	nce		47	48	95
			230	173	403
Number of Out County patients re	siden	.t	156	157	313
,, ,, ,, ,, or	n lice	nce	39	42	81
			195	199	394
MOVEMENTS OF PATIENTS DURI	NG 1	HE	VFAR		
	iii i				0.4
Admitted	• •	• •	50	45	95
Discharged and removed		• •	23	48	71
Written off books whilst on licer	nce		17	42	59
Deaths			7	6	13
Removed to Mental Hospitals			_	3	3
Discharged from Order			15	25	40

Health of Patients.

An outbreak of influenza occurred in the later months of the year which affected 98 patients. The condition was of a sharp type, coming on suddenly, with a high temperature, headache and general pains. The acute phase lasted on the average for about 2 or 3 days, but convalescence was slow in many cases and there was a tendency to recurrence.

Apart from this, there was little serious illness throughout the year and the standard of health of the patients remained generally

good.

The incidence of dysentry was reduced by more than one half from the previous year, and, when the condition occurred, it was successfully treated with sulphaguanidine.

The occurrence of tuberculosis has also decreased, only 4 fresh cases being discovered. Deaths from this cause were reduced

from 14 in 1942 to 4 in 1943.

Twenty-eight patients were transferred to Southmead Hospital for special surgical and medical treatment and 4 patients suffering from infectious diseases were sent to Ham Green Hospital. Special treatment was also arranged for at the out-patient departments of the Bristol Royal Infirmary and at the Bristol Central Clinic.

Twenty-one X-rays and other examinations were carried out at Southmead Hospital, and I have again to thank Dr. P. Phillips, the Medical Superintendent of that Institution, for the helpful

assistance he is always so ready to give.

All patients admitted during the year have been tested for scarlet fever and diphtheria and where necessary have received protective treatment. This precaution has reduced the number suffering from these diseases to a minimum. New admissions have also had dysentery tests, and in order to detect possible carriers regular tests have been carried out in respect of those patients who have suffered from the condition.

Six hundred and thirty-six bacteriological specimens were examined at the Department of Preventive Medicine, Canynge

Hall. Bristol.

Your consulting staff have continued to attend as required; and dental sessions have been held weekly in the colony.

Activities of Patients.

The demand for patient labour, which has been growing gradually since the scheme was started some years ago, has increased during the year. Local farmers are very pleased to avail themselves of this assistance and have stated that they do not know what they would have done without this help in these times of increased agricultural activity. As many as 60 adult male patients have been sent out in a single day for potato picking and harvesting the corn crops. In addition, an average of 23 patients have been employed in regular daily work on farms or

gardens in the locality. Employers speak highly of the work done by the patients and there has not been a single complaint of

misconduct of any kind.

The arrangement of sending patients out in this way has important advantages. The privilege is much sought after and the patients endeavour to prove by their work and their conduct, in the Colony that they can be trusted. It tends to inspire confidence and control in the patients and an understanding of their obligations to themselves and others. By this arrangement it is possible to test patients before giving them the increased latitude of licence, and it is satisfying to be able to report that patients who have commenced in this way have, on the whole, done well when given the greater privilege of licence.

Despite circumstances arising out of the War the normal activities of the Colony have been well maintained, and it has been possible to carry on the work of the Colony and provide for the leisure hours of the patients with little or no curtailment. The workshops continue to function and to provide useful training, at the same time contributing to a large extent to the colony requirements in the way of clothing, footwear and brushes; and in addition to which a considerable volume of repair work is carried out. As is to be expected, materials are not in such good supply as we would like, but owing to the foresight of the Steward an acute shortage of essential materials has not been experienced.

Apart from the agricultural work outside the Colony referred to earlier in the report, many male patients have been employed on the Colony farm and gardens. Since the outbreak of War the area of land under cultivation has been increased. Parties of female patients were also employed in potato harvesting and

weeding.

Good crops have been obtained. Hay, oats, barley and dredge-corn have been grown in addition to all the potato and vegetable requirements of the Colony. As in previous years patients have been encouraged to cultivate small vegetable plots

and the gardens surrounding the lodges.

Recreational activities have also been kept going, for occupation in the hours of leisure is just as important in its way as during working hours. Apart from the fact that patients are much happier and less difficult to control if kept occupied it has a stimulating effect on those who are inert and require rousing, and it provides an outlet and an interest for those who are less stable and who would probably find some mischief or other to occupy them if left to their own devices.

Outdoor games,—cricket, football, hockey—for females, netball and mixed tennis—have been played in season, and matches

against outside teams played regularly.

During the winter months dancing, cinematograph shows and whist drives have been arranged so that there has been some special feature or two each week. During the autumn it was possible to increase the cinematograph shows to one each week.

Only the younger children were included in the school concert which took place in December, and considering the mentality of

those taking part it was a very creditable effort.

New talent had to be found for the adult concert which also was held in December, as most of the regular performers had gone out on licence, but despite this, the concert was well up to the usual standard. Several concerts were given locally by the adult and children's concert parties for charitable purposes.

The Annual Sports, which was attended by the Lord Mayor

and Lady Mayoress (Councillor H. A. Wall and Mrs. Wall), was favoured by good weather and provided an enjoyable day for all.

Licence. M No. of patients on licence at end of year 1943... 86 176 90 No. of patients granted licence during 1943 53 78 131 No. of patients returned from licence during 1943 16 46

28 of which were from licence during previous years and 34 of which were from licence granted during current year. Of the 62 patients returned from licence

29 were from hostels

21 from employers

12 from parents

Reasons for return were

(a) 9 for serious offences—stealing and sexual.

42 trivial fault of patient—mainly failure to

11 no fault of patient—for treatment, unsuit-

ability, change of circumstances.

It has always been the policy of the Committee to grant licence to those who are considered suitable. The history of the patient and the supervision and control available are carefully considered before licence is granted, but no matter how careful the consideration given it is not possible to count on the reaction of the individual, for a patient who appears to have become stabilised and dependable as evidenced by behaviour in the Colony often reacts quite differently when subjected to the sudden change of comparative freedom of licence.

Returns of patients from licence have been due, with few exceptions, to trivial offences of an impulsive and senseless kind associated with instability and lack of control and an understanding of their obligations and interests. In some cases a lack of understanding and consideration by those in charge has con-

tributed to the failure of patients to settle down.

There are still many high grade patients in the Colony who have been here for long periods and have not been granted licence owing to their undependable ways. Of the large number of patients who have been discharged from Order after trial for a period of two years or more on licence only a very small percentage has had to be re-certified. Many of those discharged are now in regular employment and are self-supporting.

During the year 36 patients have been discharged from Order—16 by order of the Board of Control, 20 by operation of law—order lapsed, and of this number 5 patients who were discharged by operation of law have been re-certified.

School.

The school is divided into five classes. The average daily attendance at school was 96 children—57 males and 39 females. The higher grade children receive instruction in reading, writing, arithmetic, physical training, gardening and concert work. Play, in which every-day situations are staged is another feature, and physical exercises and organised games are included in the curriculum.

A canteen has been provided in the school so that children may obtain experience in choosing, buying and selling—thus helping them to gain understanding of money values. The higher grade children attend the workshops three afternoons in each week for instruction in various trades and handicrafts.

Miss McDorwall and Montessori apparatus is used with the lower grade patients. Training is provided in sense development, hygiene, object and picture lessons, simple movements and games to music. The children are encouraged in free play, balancing and co-ordination exercises, and very simple forms of handwork.

Male adult patients attend classes each Saturday morning for

instruction in reading and writing.

Guides and Scouts.

Weekly meetings have been held and outings arranged, and other special privileges granted, including parole outside the Colony to selected Scouts. Special attention has been given to training in first aid and fire fighting. The Guides staged an incident as a display on Sports Day, which was very efficiently carried out.

Visits.

Miss R. Darwin, Senior Commissioner of the Board of Control, made the statutory visit to the Colony on 10th December, 1943. A copy of the report on this visit has been circulated to the members of the Committee.

Buildings.

The buildings have been maintained in a good state of repair.

A.R.P. Service.

Regular instruction has been given in fire fighting, and all available members of the staff have attended a special course of lectures and have passed the practical test in dealing with fire bombs and obtained the certificate of training for fire guards.

I have again to thank all members of the staff for the way

they have co-operated in the fire watching scheme.

Lectures.

Lectures and demonstrations on mental deficiency have been given to medical students and social workers from Bristol University, and to the nurses taking the course in Public Health training under the Medical Officer of Health.

Staff.

The strength of the female staff improved during the year but it is still not up to full requirements. The shortage has been felt particularly during the leave period, but even so it was possible to arrange for all staff to have the full period of leave. There have been no changes in male nursing staff during the year.

Five female nurses were successful in the preliminary examination of the Royal Medico-Psychological Association and six female and two male nurses were successful in obtaining the certificate of the Royal Medico-Psychological Association in Men-

tal Nursing.

Several of the 15 members of the staff who are in His Majesty's Forces are serving overseas, and I am pleased to report that all are safe and well. One, Sergeant A. Mills, R.A.F., has been awarded the British Empire Medal, Military Division, for great bravery in saving the crew of a burning aeroplane.

The Staff Savings Group and Red Cross Penny-a-week Fund

have been well supported.

I wish to thank you, Sir, Ladies and Gentlemen of the Committee for the great interest you have taken in the work of the Colony, and for the kindly consideration and assistance you have given me at all times.

I would also like to express my appreciation to all the members of the Staff for their efficient work and for the co-operation they

have given me.

J. F. LYONS,

Medical Superintendent.

Hortham Colony, Almondsbury, Near Bristol. May, 1944.

PART II.

REPORT OF THE MEDICAL OFFICER OF HEALTH.

To the Chairman and Members of the Mental Deficiency Acts Committee.

I have the honour to submit the following report on the domiciliary work of the Committee under the Mental Deficiency Acts, 1913-1938, for the year ended the 31st December, 1943.

Administrative Arrangements.

The administrative arrangements for the discharge of the Council's duties under the Mental Deficiency Acts, 1913-1938, apart from the control of Hortham Colony and the collection of contributions towards patients' maintenance, are, as hitherto, carried out by specially appointed officers under the supervision of the Medical Officer of Health.

Ascertainment.

The new cases which the Local Authority were called upon to deal with during 1943 under the Mental Deficiency Acts, were:—

N	umbei	r	Source of information
	46		Local Education Authority
	3		Social Welfare Committee
	9		Police
	28		Miscellaneous
	—		
	86		
These of	cases	were	dealt with as follows:—
	38		Sent to Institutions
	34		Placed under supervision
	_		701
	14		No action taken

86

In addition, on the 31st December, 1943, there were 218 defectives in attendance at Special Schools under the control of the Local Education Authority, 180 at Barleyfields, and 38 at Eastcourt House.

The number of defectives on the 31st December, 1943, ascertained by the Council subject to be dealt with or who might become subject to be dealt with was 1394 exclusive of the number in special schools.

Supervision.

On the 31st December, 1943, the number of cases under supervision was 623, compared with 630 for the same period for 1942.

Guardianship.

On the 31st December, 1943, the number of cases under guardianship was 99, compared with 98 for 1942.

Licence.

At the beginning of the year there were 122 patients on licence and during the year 81 further licences were issued. 78 licences were withdrawn and the number of patients on licence on December 31st, 1943, was 125.

Discharges.

During the year 41 mental defectives were discharged from Order, and 30 discharged from supervision. The numbers for the previous year were 47 and 80 respectively.

Deaths.

There were 22 deaths among the institution, guardianship and supervision cases during the year, compared with 23 for 1942.

Occupation Centres.

The following classes were held:—

3		Daily average
	per week	attendance
Adult Male	5 days	19
Juvenile and Intermediate	5 days	46
Adult Female	5 half-days	6

A feature of the Occupation Centre of to-day is the change over in the classes of trainees. Previous to the war the adult population was in the majority by far, to-day the Juveniles form about two-thirds of the attendees. Places of employment have been found for the adults, only the most helpless remain, and in the case of the juveniles, the Centres make it possible for mothers to become employed. Though the Centre is very much handicapped in the prevailing conditions, it continues to carry out fully its assistance to the home life and occupation of the patient.

Medical Inspection.

The medical inspection and treatment of defectives attending the Occupation Centre is carried out through the clinics and hospitals attached to the health services of the City.

Institutional Care.

Six hundred and fifty-two patients are being maintained by the local authority in institutions, of which total 125 patients were absent from the institutions on licence.

> R. H. PARRY, M.D., Medical Officer of Health.

Department of Public Health, Bristol, 1.

May, 1944.

MENTAL DEFICIENCY ACTS COMMITTEE Statement of Accounts for year ended 31st March, 1944 EXPENDITURE

EXPENDITURE			
Maintenance at Hortham Colony.			£
Salaries, wages, etc			21,019
Provisions			11,127
Clothing, Inmates and Staff Uniforms			3,098
Drugs, Medical and Surgical Appliances			647
Fuel, Light and Water			4,126
Cleaning materials and Laundry wages		• •	1,425
Furniture, bedding, linen and hardware			1,736
Repairs to buildings	• •	• •	
	• •	• •	1,777
Transport and travelling	••	• •	533
Printing, Stationery, Postage and Miscella	neous	• •	1,418
Rents, Rates, Insurance and War Damage	Conto	on.	2,689
			40 808
			49,595
Loan Charges		• •	15,862
			£65,457
Maintenance at other Institutions.	£.		
At Institutions under orders	14,65	52	
By Guardianship under orders	4,39		
Removal and other expnses	10		
·			19,152
Occupation Centres			3,204
Supervision and Coneral Expanditure	• •		
Supervision and General Expenditure	• •		2,783
Supervision and General Expenditure	• •		2,783
Supervision and General Expenditure TOTAL EXPENDITURE	• •		
Supervision and General Expenditure TOTAL EXPENDITURE	• •		2,783
Supervision and General Expenditure TOTAL EXPENDITURE INCOME	• •		2,783
TOTAL EXPENDITURE INCOME Hortham Colony.	• •		2,783 £90,596
TOTAL EXPENDITURE INCOME Hortham Colony. Occupational training—surplus	• •		2,783 £90,596
TOTAL EXPENDITURE INCOME Hortham Colony. Occupational training—surplus Superannuation Deductions	·· •		2,783 £90,596 366 551
TOTAL EXPENDITURE INCOME Hortham Colony. Occupational training—surplus Superannuation Deductions Rents	 E		2,783 £90,596 366 551 161
TOTAL EXPENDITURE INCOME Hortham Colony. Occupational training—surplus Superannuation Deductions Rents Miscellaneous			2,783 £90,596 366 551 161 1,292
TOTAL EXPENDITURE INCOME Hortham Colony. Occupational training—surplus Superannuation Deductions Rents			2,783 £90,596 366 551 161 1,292
TOTAL EXPENDITURE INCOME Hortham Colony. Occupational training—surplus Superannuation Deductions Rents Miscellaneous			2,783 £90,596 366 551 161 1,292 ace 2,450
TOTAL EXPENDITURE INCOME Hortham Colony. Occupational training—surplus Superannuation Deductions Rents Miscellaneous			2,783 £90,596 366 551 161 1,292 ace 2,450
TOTAL EXPENDITURE INCOME Hortham Colony. Occupational training—surplus Superannuation Deductions Rents Miscellaneous			2,783 £90,596 366 551 161 1,292
TOTAL EXPENDITURE INCOME Hortham Colony. Occupational training—surplus Superannuation Deductions Rents Miscellaneous Emergency Hospital—Grant on account of			2,783 £90,596 366 551 161 1,292 ace 2,450
TOTAL EXPENDITURE INCOME Hortham Colony. Occupational training—surplus Superannuation Deductions Rents Miscellaneous Emergency Hospital—Grant on account of			2,783 £90,596 366 551 161 1,292 ace 2,450 4,820
TOTAL EXPENDITURE INCOME Hortham Colony. Occupational training—surplus Superannuation Deductions Rents Miscellaneous Emergency Hospital—Grant on account of Occupation Centre Maintenance of Cases.		 enan	2,783 £90,596 366 551 161 1,292 ace 2,450 4,820 182
TOTAL EXPENDITURE INCOME Hortham Colony. Occupational training—surplus Superannuation Deductions Rents Miscellaneous Emergency Hospital—Grant on account of Occupation Centre Maintenance of Cases. Other Local Authorities	 maint	 enan	2,783 £90,596 366 551 161 1,292 ace 2,450 4,820 182 32,887
TOTAL EXPENDITURE INCOME Hortham Colony. Occupational training—surplus Superannuation Deductions Rents Miscellaneous Emergency Hospital—Grant on account of Occupation Centre Maintenance of Cases.	 maint	 enan	2,783 £90,596 366 551 161 1,292 ace 2,450 4,820 182
TOTAL EXPENDITURE INCOME Hortham Colony. Occupational training—surplus Superannuation Deductions Rents Miscellaneous Emergency Hospital—Grant on account of Occupation Centre Maintenance of Cases. Other Local Authorities Contributions under Voluntary Agreements	maint	 enan	2,783 £90,596 366 551 161 1,292 ace 2,450 4,820 182 32,887 1,464
TOTAL EXPENDITURE INCOME Hortham Colony. Occupational training—surplus Superannuation Deductions Rents Miscellaneous Emergency Hospital—Grant on account of Occupation Centre Maintenance of Cases. Other Local Authorities	 maint	 enan	2,783 £90,596 366 551 161 1,292 ace 2,450 4,820 182 32,887
TOTAL EXPENDITURE INCOME Hortham Colony. Occupational training—surplus Superannuation Deductions Rents Miscellaneous Emergency Hospital—Grant on account of Occupation Centre Maintenance of Cases. Other Local Authorities Contributions under Voluntary Agreements TOTAL INCOME TOTAL INCOME	maint	 enan	2,783 £90,596 366 551 161 1,292 ace 2,450
TOTAL EXPENDITURE INCOME Hortham Colony. Occupational training—surplus Superannuation Deductions Rents Miscellaneous Emergency Hospital—Grant on account of Occupation Centre Maintenance of Cases. Other Local Authorities Contributions under Voluntary Agreements TOTAL INCOME NET EXPENDITURE	maint	 enan	$ \begin{array}{r} 2,783\\ \underline{\cancel{\xi}90,596}\\ 366\\ 551\\ 161\\ 1,292\\ 3ee 2,450\\ \underline{32,887}\\ 1,464\\ \underline{\cancel{\xi}39,353}\\ \underline{\cancel{\xi}51,243}\\ \end{array} $
TOTAL EXPENDITURE INCOME Hortham Colony. Occupational training—surplus Superannuation Deductions Rents Miscellaneous Emergency Hospital—Grant on account of Occupation Centre Maintenance of Cases. Other Local Authorities Contributions under Voluntary Agreements TOTAL INCOME TOTAL INCOME	maint	 enan	2,783 £90,596 366 551 161 1,292 ace 2,450